EVALUATION OF SHORT-TERM NO$_x$ PLUME MODELS FOR POINT SOURCES
Volume 2. Data

by

M. A. Kocke
D. A. Stewart
J. Johnson
R. J. Frost

Systems Applications, Incorporated
950 Northgate Drive
San Rafael, California 94903

Contract No. 68-02-2775

Project Officer

Kenneth L. Schere
Meteorology and Assessment Division
Environmental Sciences Research Laboratory
Research Triangle Park, North Carolina 27711

ENVIRONMENTAL SCIENCES RESEARCH LABORATORY
OFFICE OF RESEARCH AND DEVELOPMENT
U.S. ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

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ABSTRACT

In this volume, all data collected by Meteorology Research, Incorporated and the University of Washington during the RITT program are plotted. These include maps showing aircraft flight paths and groups of data collected along the paths.

Footnote

In this volume, all data collected by Meteorology Research, Incorporated and the University of Washington during the MISTT program are plotted.

For each day, there are one or more maps showing aircraft flight paths and, following the maps, graphs of data collected along the paths. The direction of flight for each path is labelled on the map and corresponding graphs (e.g., traverse five 1/1). Each map also shows locations of either traverses through a plume or background traverses and spirals on a given day.

On each spiral graph, the abscissa of the graph indicates the time, type of sampling pass, and map reference. The ordinate of the graph indicates the altitude, in meters, of the airplane above mean sea level. On traverse and background graphs, the ordinate of the graph indicates the time, type of sampling pass, and map references. The abscissa indicates the altitude and length of the pass.

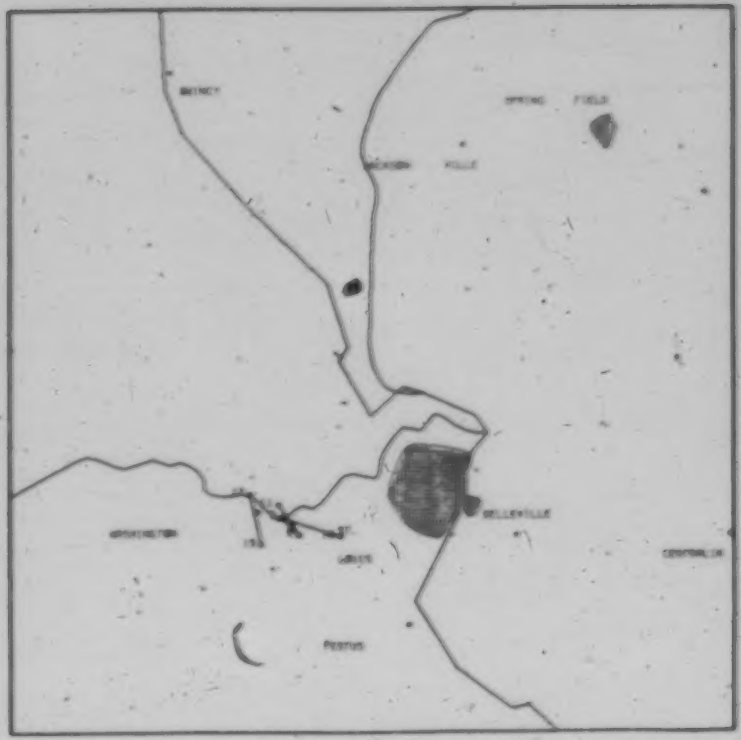
For traverse graphs, the length of the graph matches the length of the path on the corresponding map. Also shown in each traverse graph are the wind speed and direction measured within a few minutes of the traverse time at the traverse altitude. The actual wind speed and direction are given, in standard meteorological convention, as well as the direction of the wind with respect to the flight path. If the abscissa of a graph is oriented along flight path, the arrow at the top of the graph shows wind direction with respect to that path. For a traverse, the relative wind direction should ideally be close to 90°.

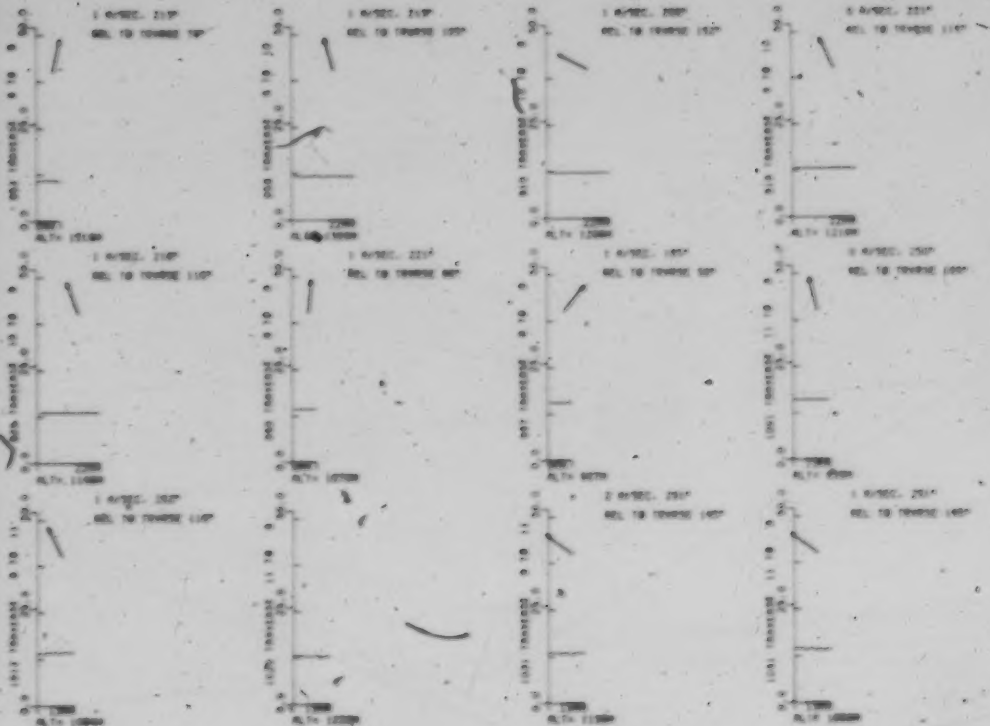
PART I

METEOROLOGY RESEARCH, INCORPORATED DATA

• 6027176

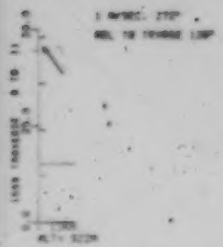
MAP 1

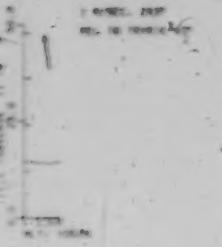




TEMP IN DEGREES C

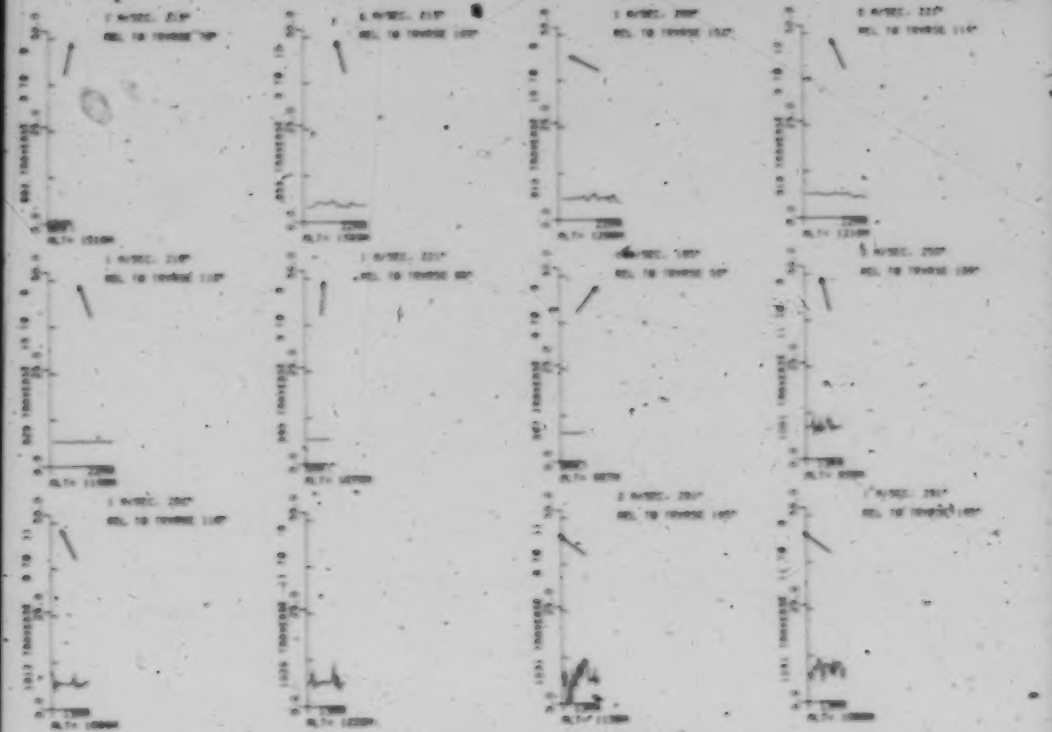
MAP 1





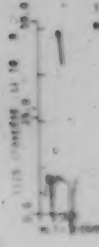
TEMP IN DEGREES C

MAP 1

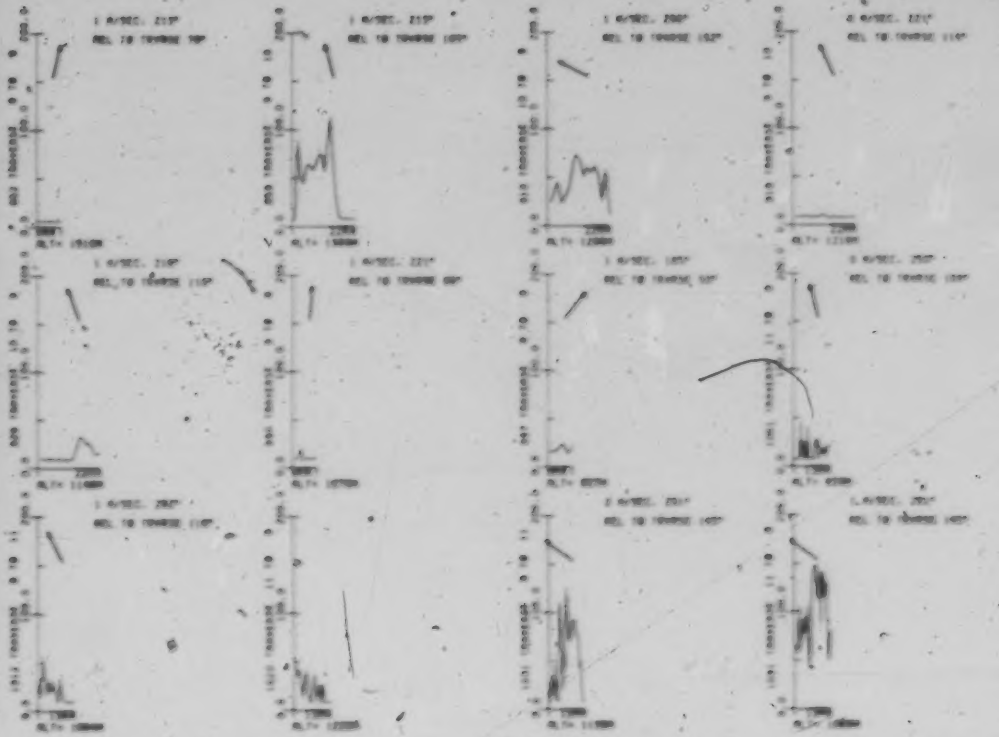


DEWPOINT IN DEGREES C

MAP 1

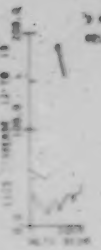


DEWPOINT IN DEGREES C



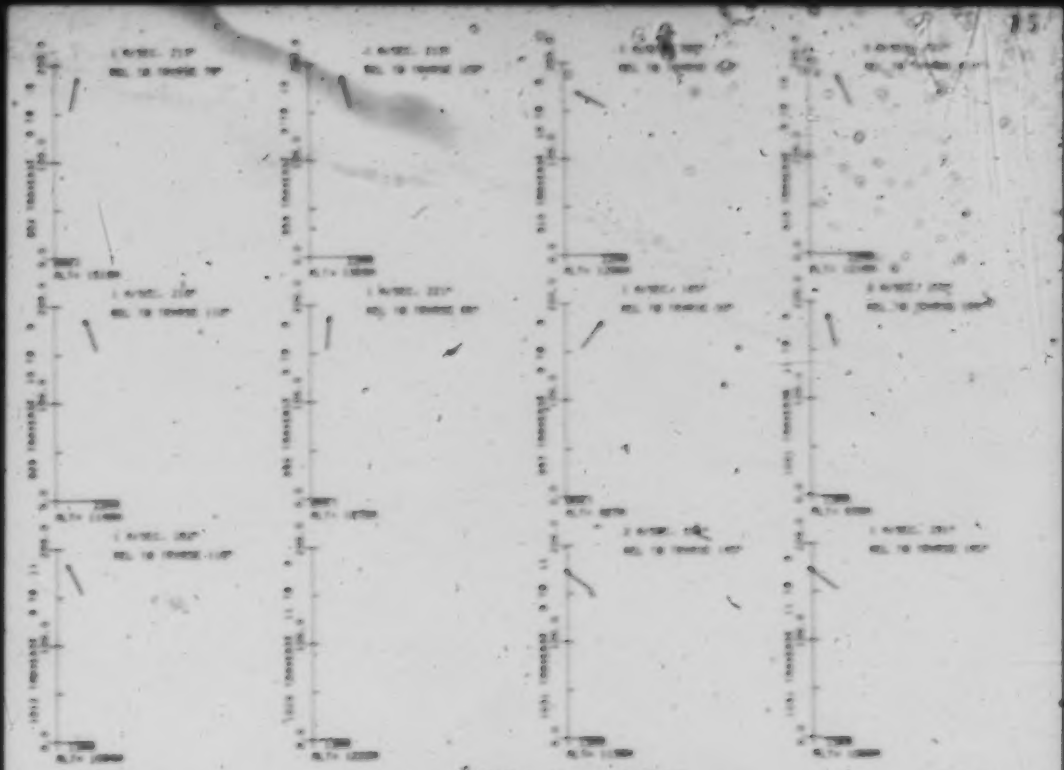
CNC (x $10^5 cm^{-3}$)

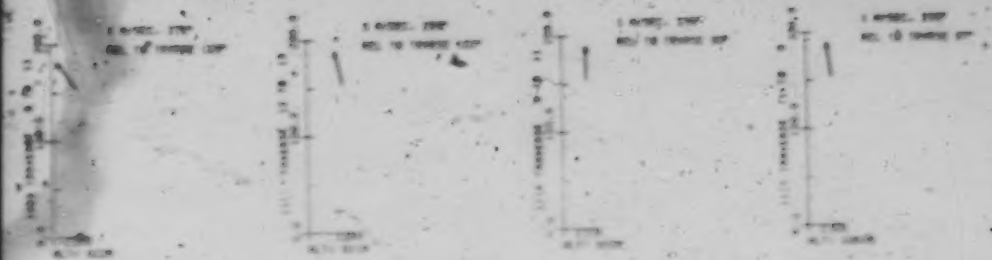
whip 1



CMC IN 10^{20} CM^{-3}

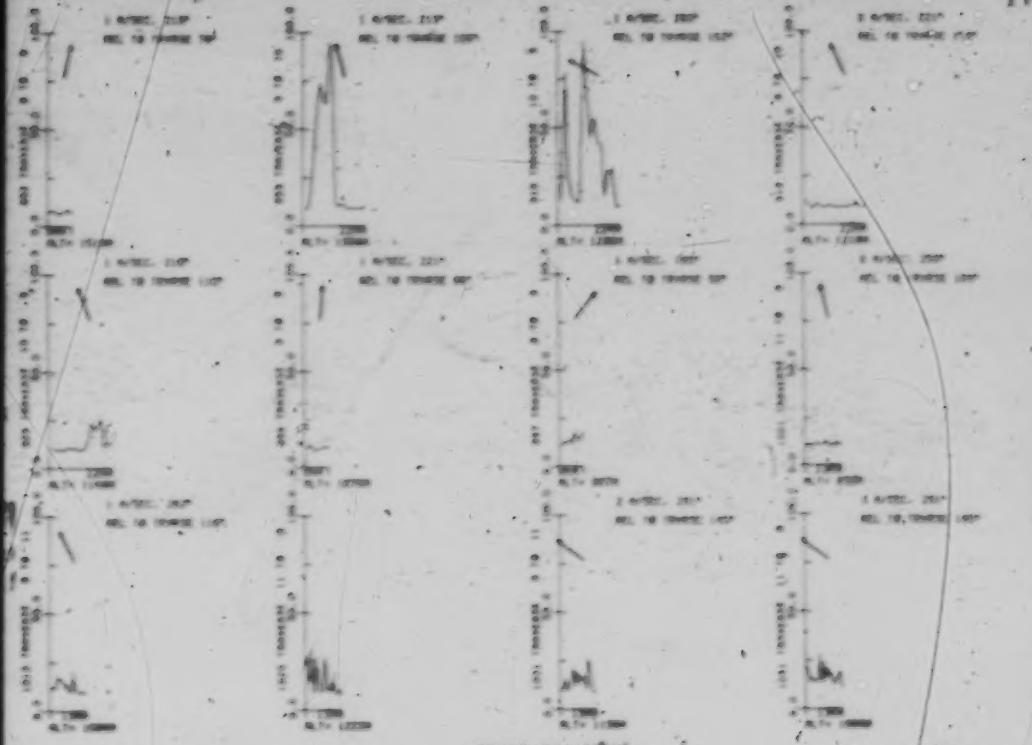
MOP


CHARGE IN MILLIVOLTS
MAP 1

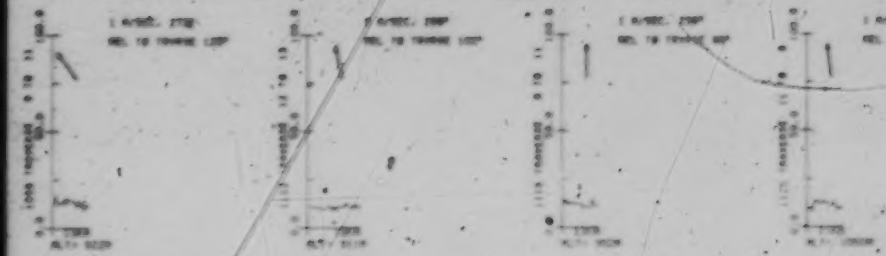


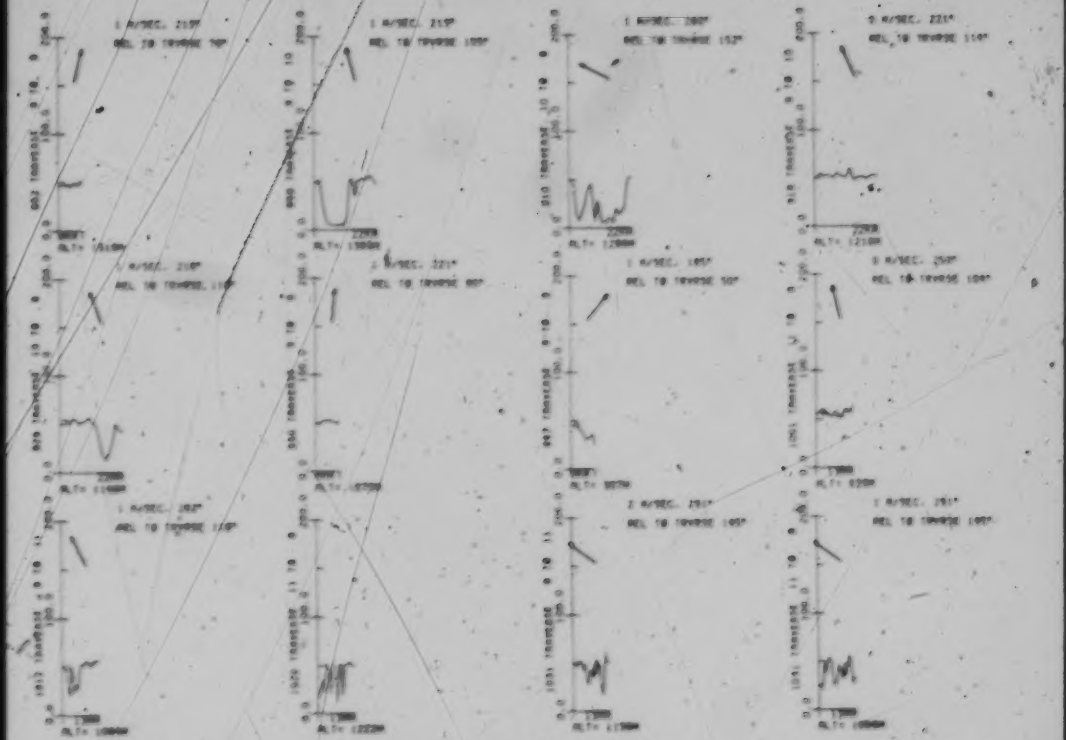
CHARGE IN MILLIMOLES

MAP 1



BSCAT [9*10⁻⁶m⁻¹]





03 IN P.P.B.

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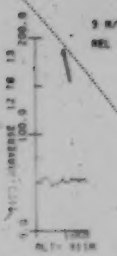

83 IN P.P.B.

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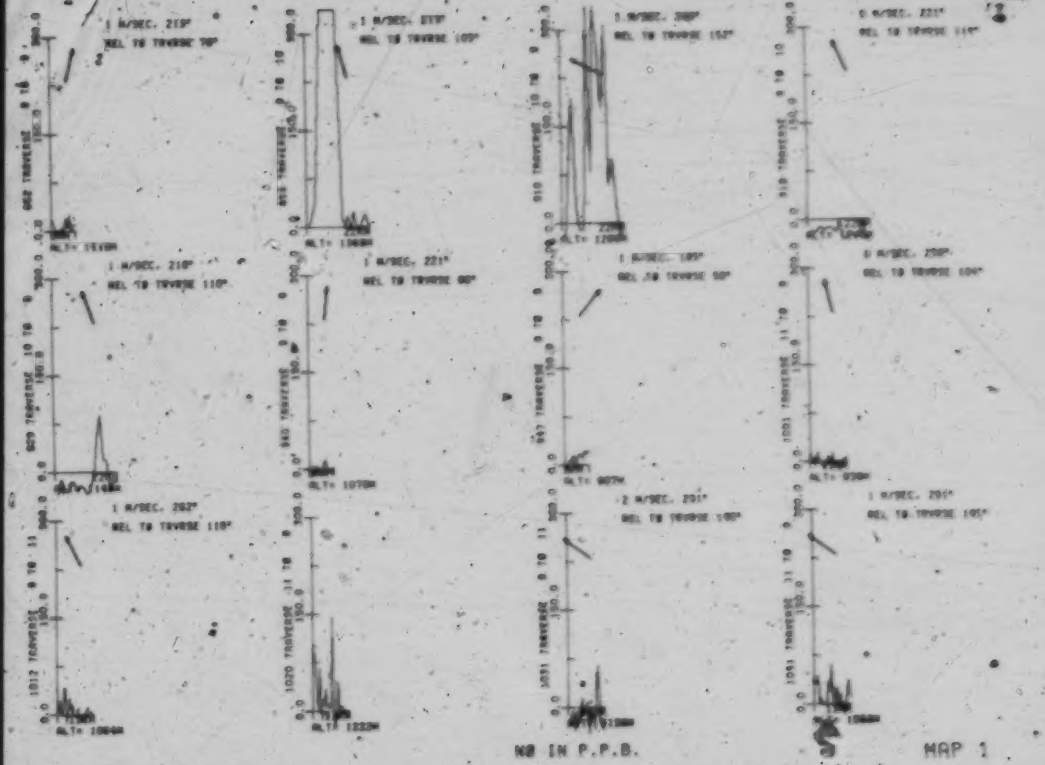

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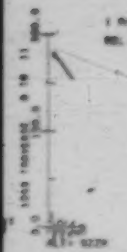

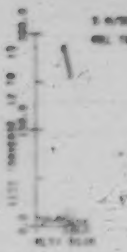

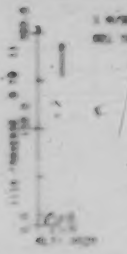

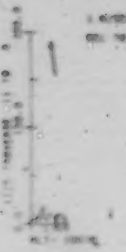

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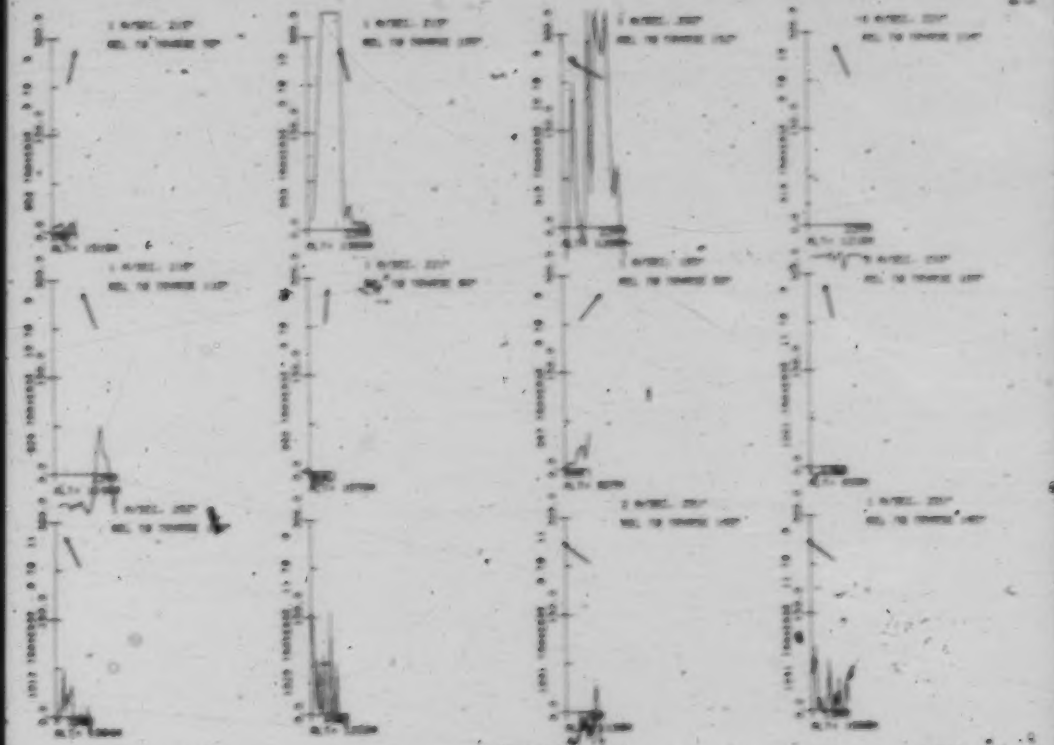
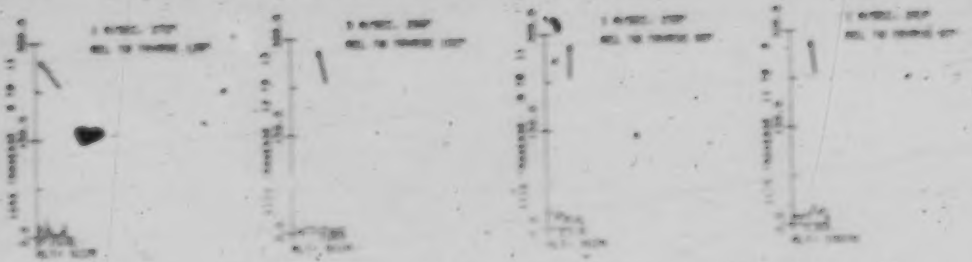
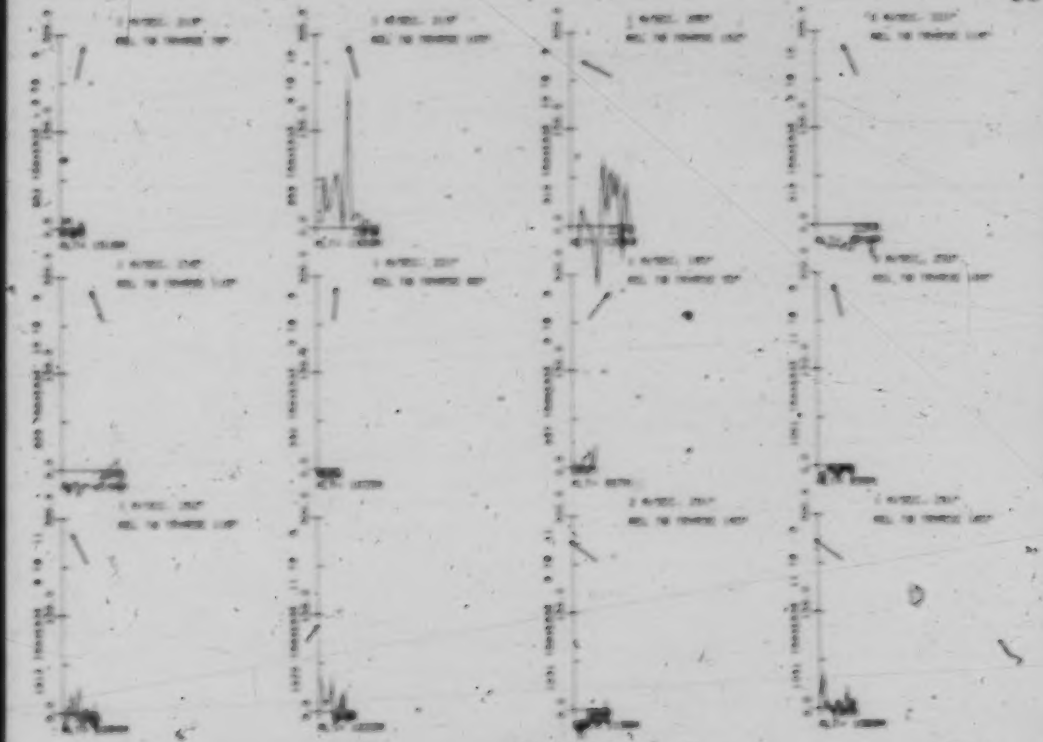
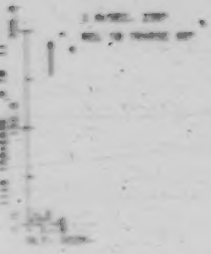
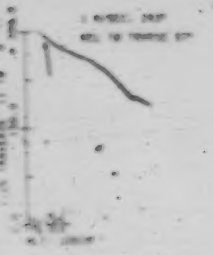


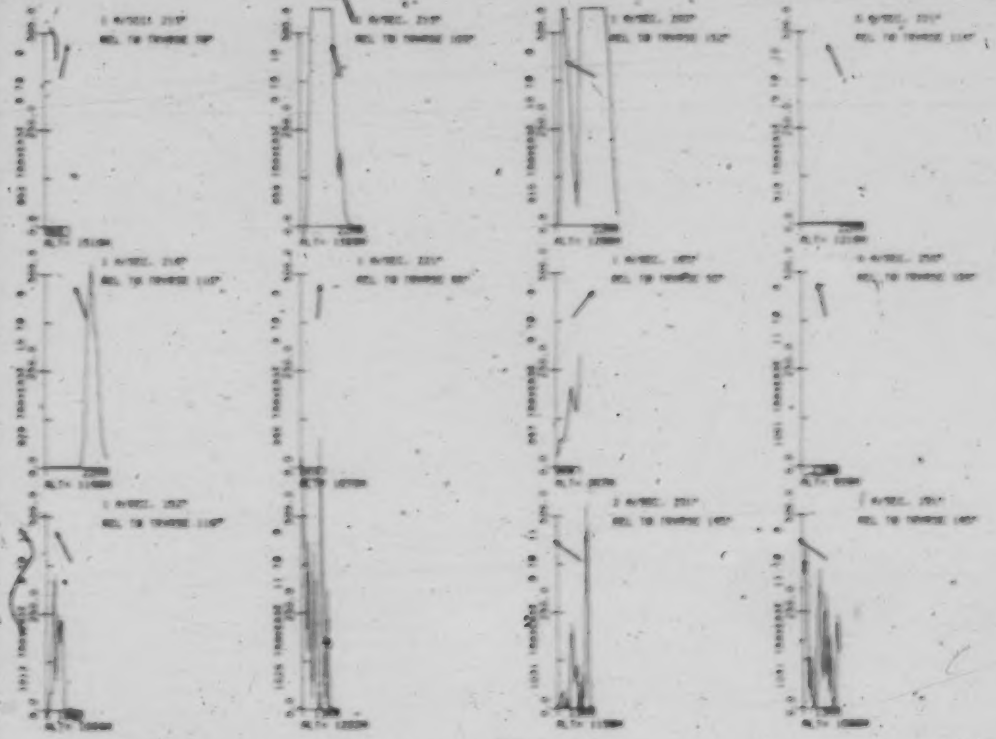








MAP 1



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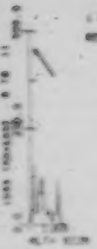
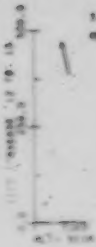
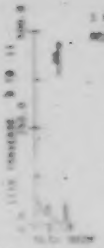
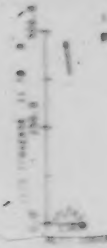
MAP 1









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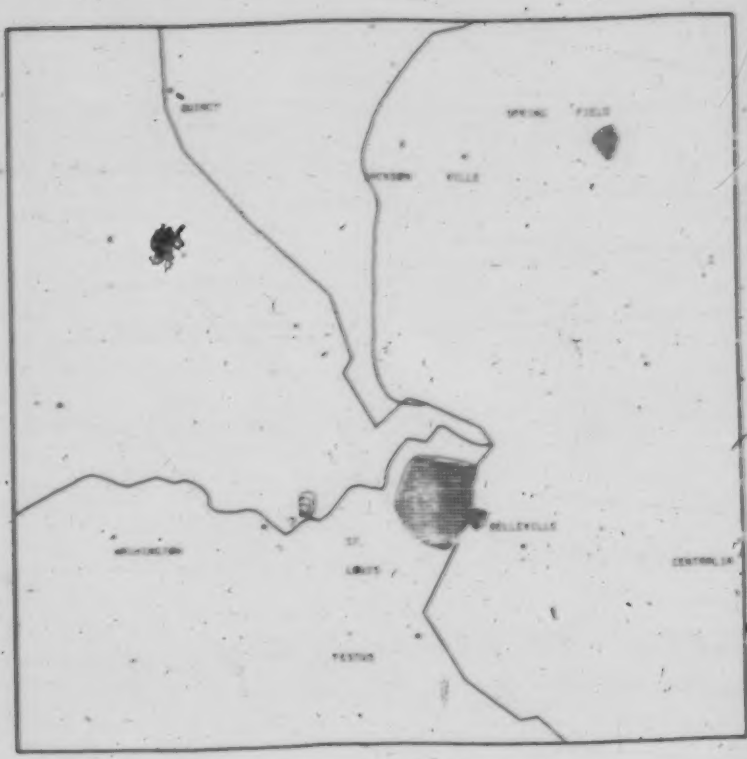
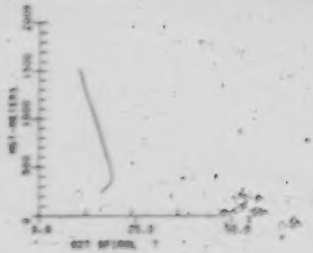
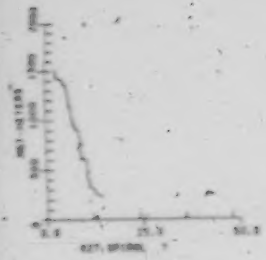




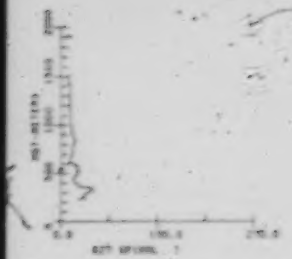
TEMP IN DEGREES C

MAP 1



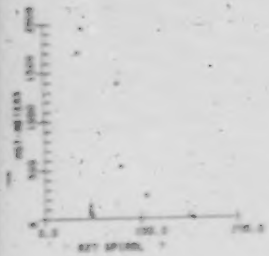
DEWPOINT IN DEGREES C

MAP 1



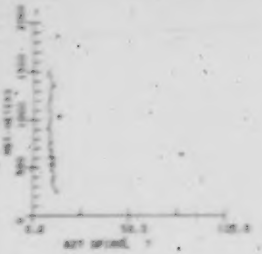
CNC IN $10^5 cm^{-3}$

MAP 1



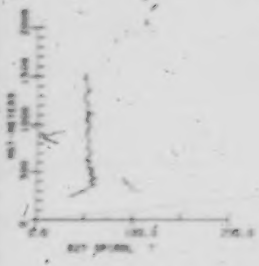
CHARGE IN MILLIVOLTS

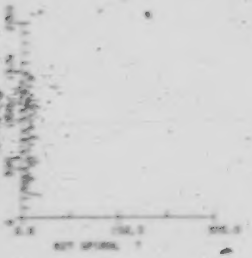
MAP 1

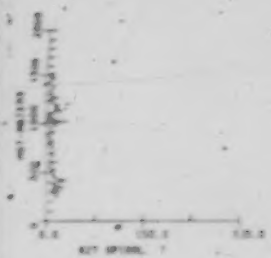


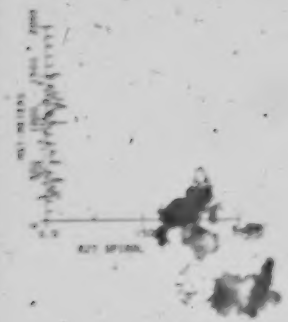
BSCAT IN 10^{-3} M^{-1}

MAP 1









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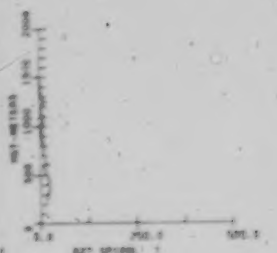

SO2 IN P.P.B.

MAP 1

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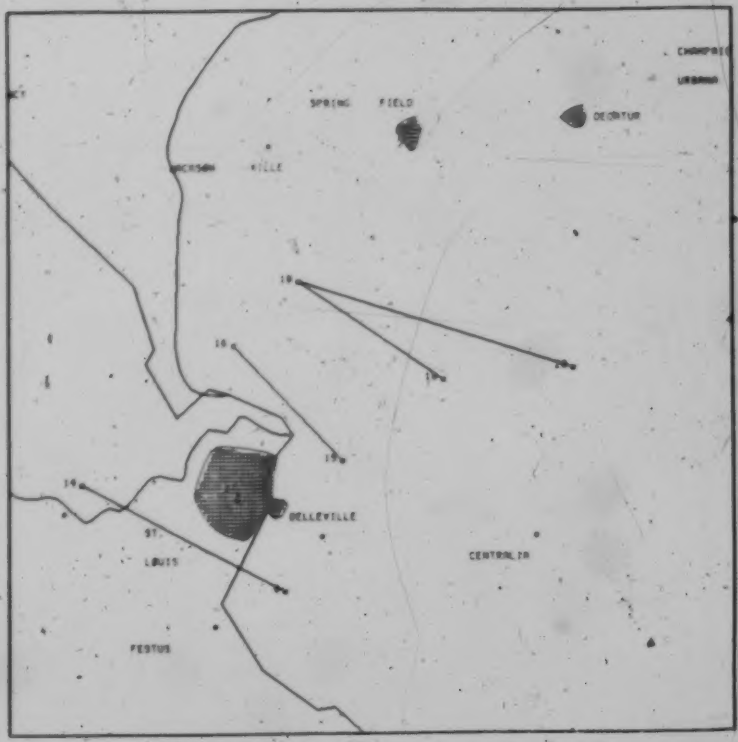
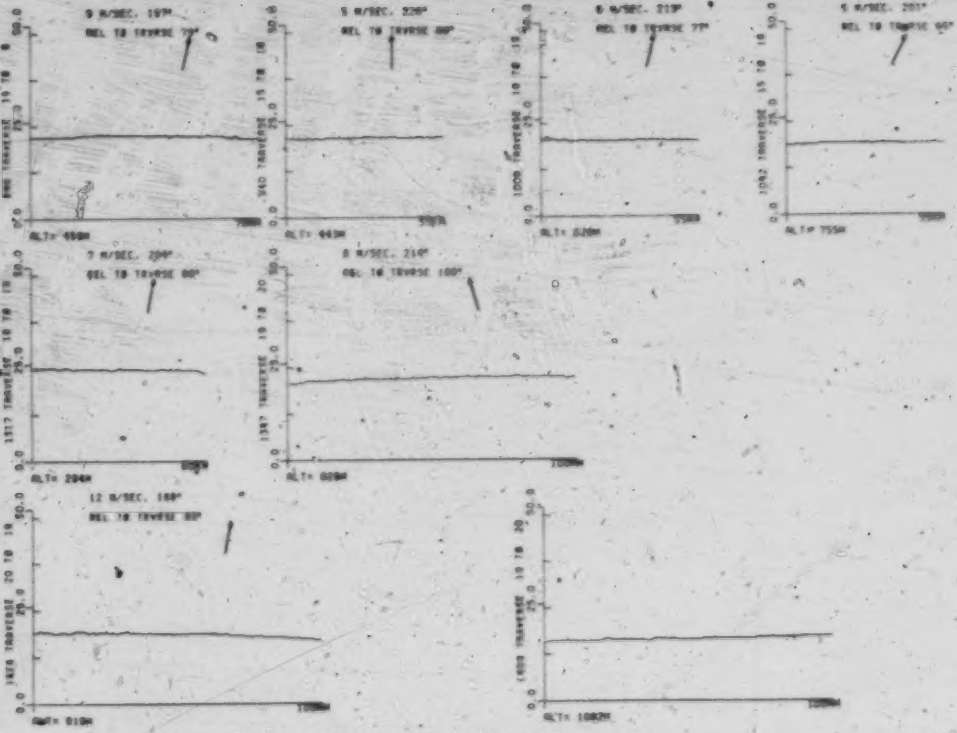
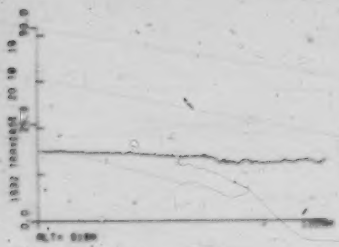
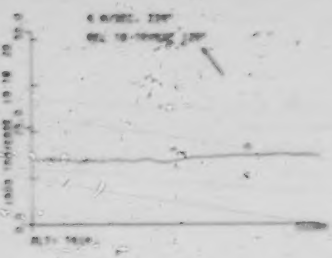
MAP 2




TEMP IN DEGREES C
MAP 2





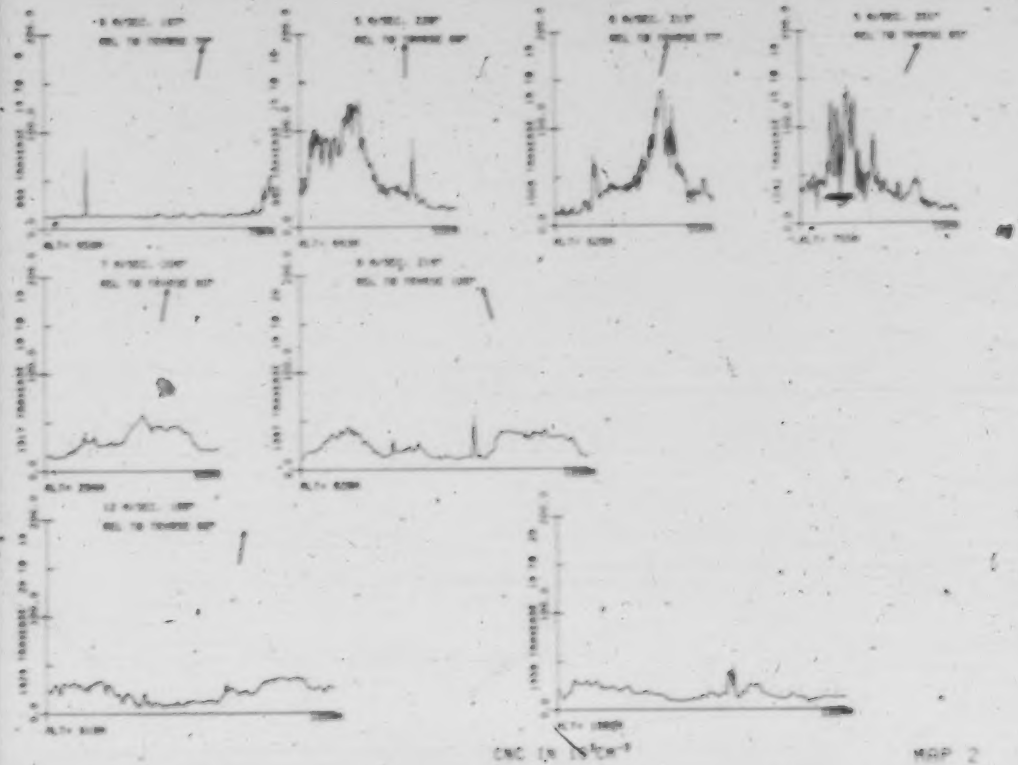
TEMP IN DEGREES C

DEWPOINT IN DEGREES C

MAP 2

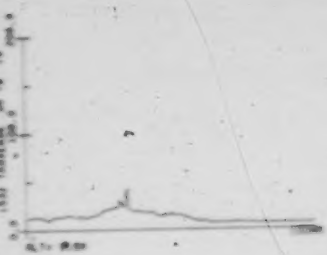
DEWPOINT IN DEGREES C

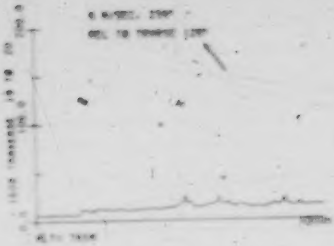
MDP



CNC [a 1]$^{-1}$cm^{-3}

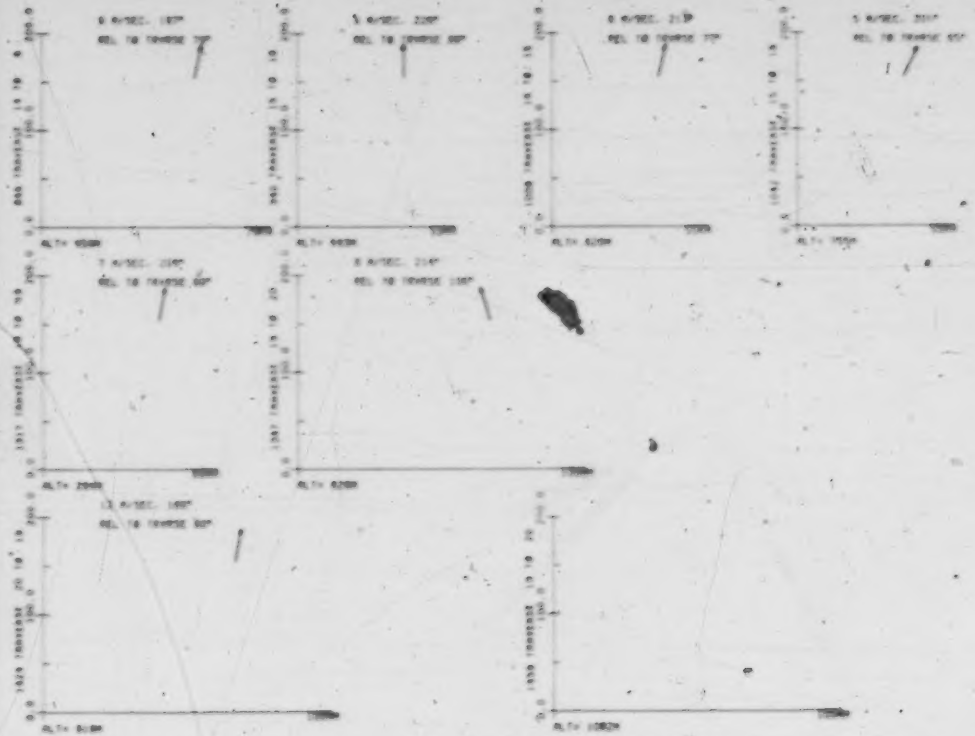
MAP 2





CNC in $10^6 cm^{-3}$

MOP

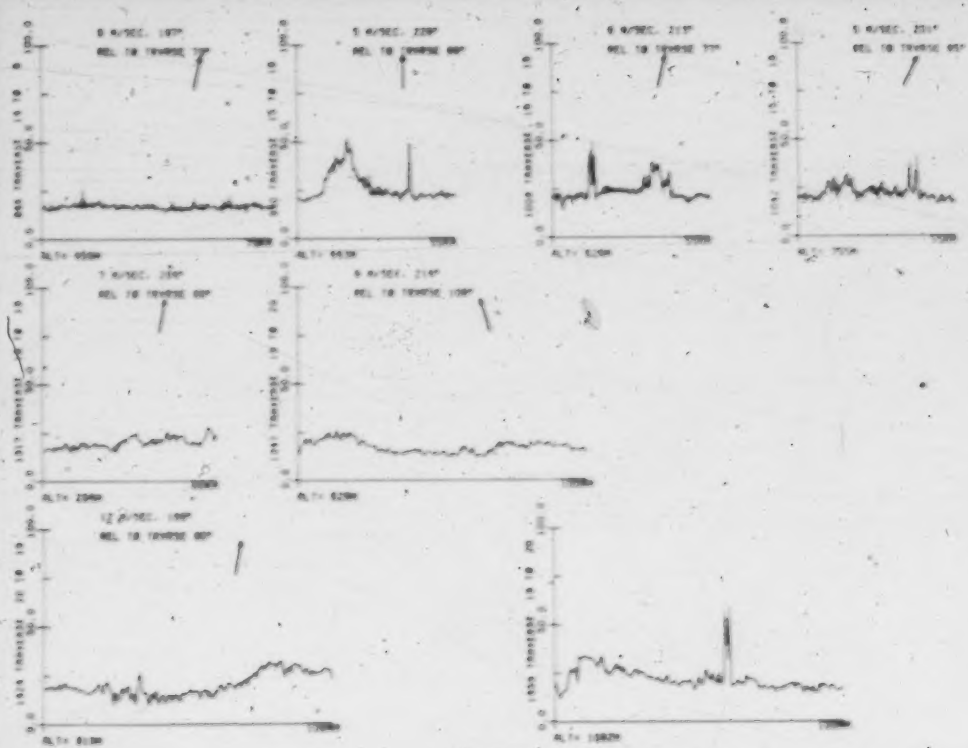


CHARGE IN MILLIVOLTS

MAP 2

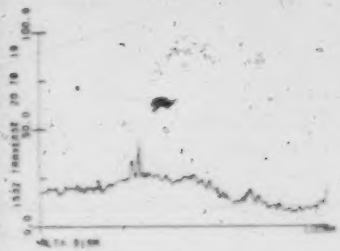
CHARGE IN MILLIVOLTS

MAP 2



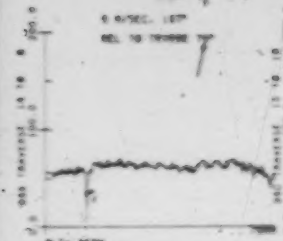
BSCAT IN $10^{-6}m^{-1}$

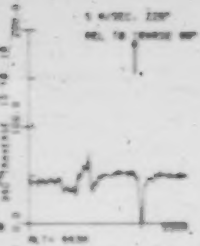
MAP 2

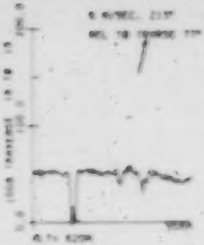


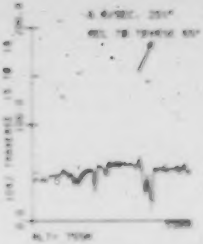
BOOST IN. 10^{-5} m^{-1}

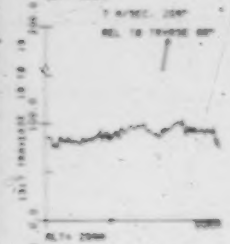
MOP

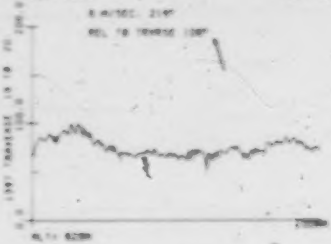


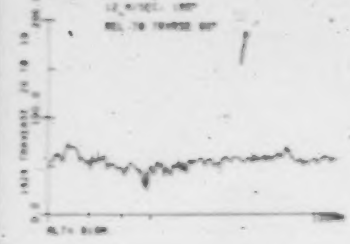






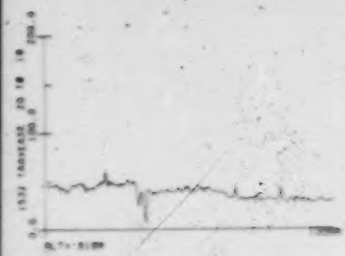


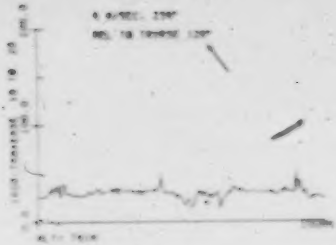


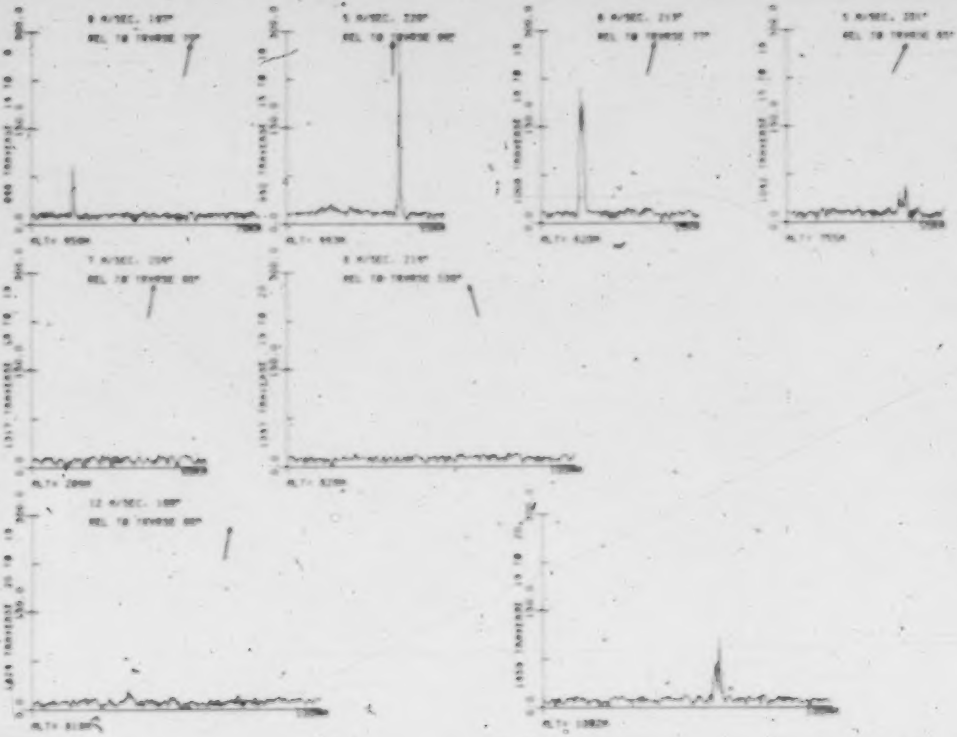


83 IN P.P.B.

MAP 2

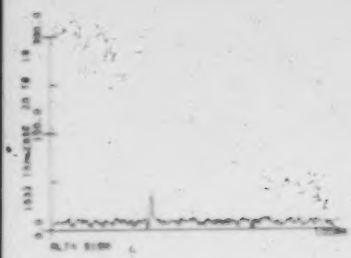


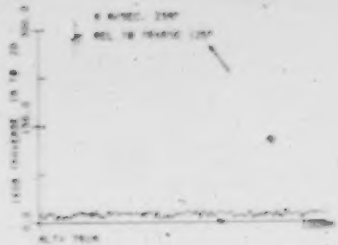


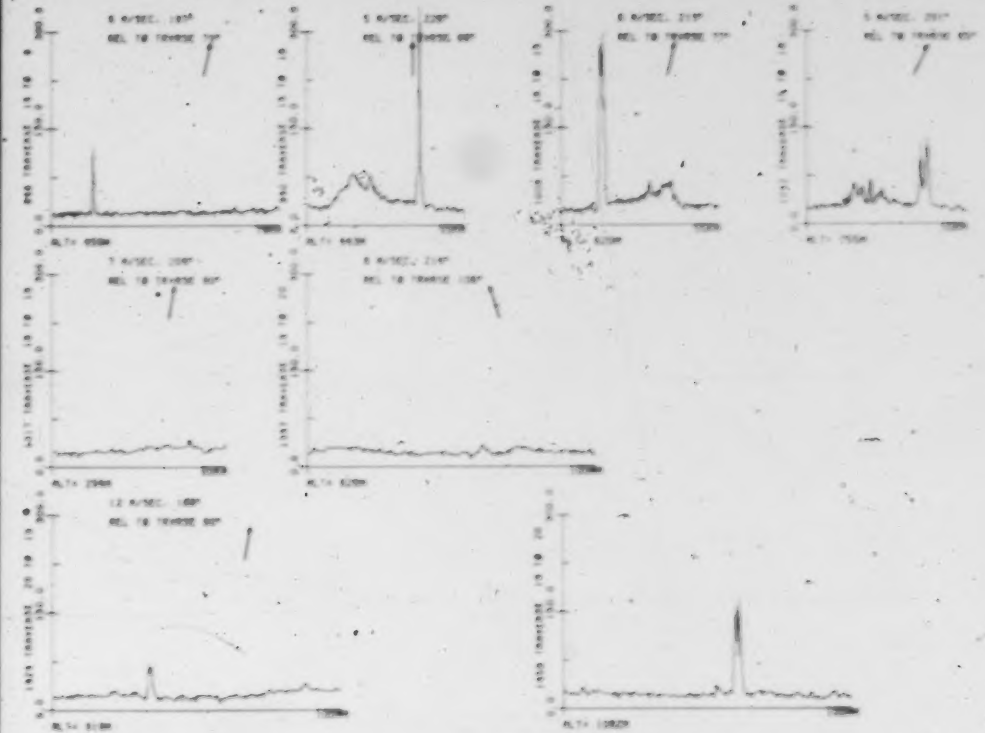


NB IN P.P.B.

MAP 2

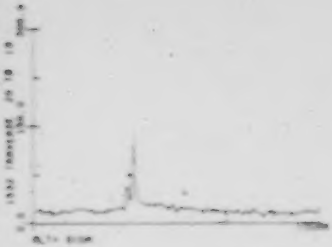


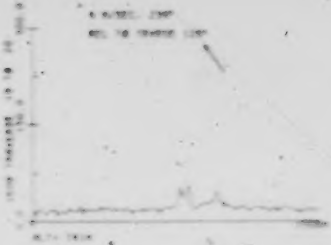




NOT IN P.P.S.

MAP





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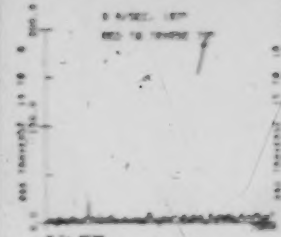
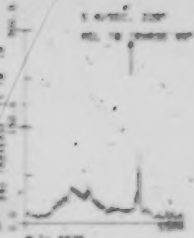
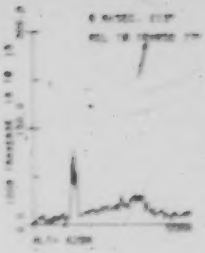
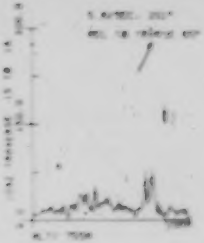
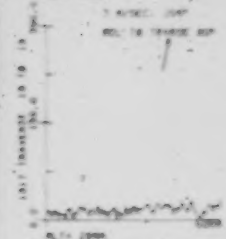
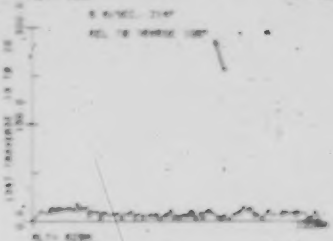


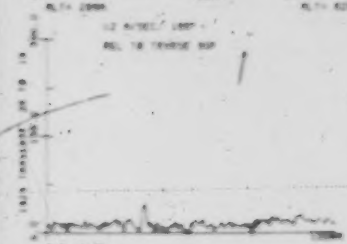






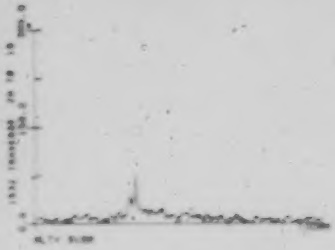


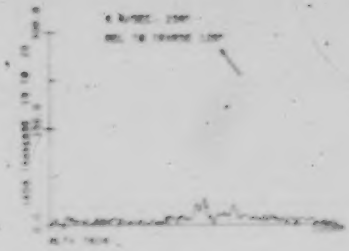


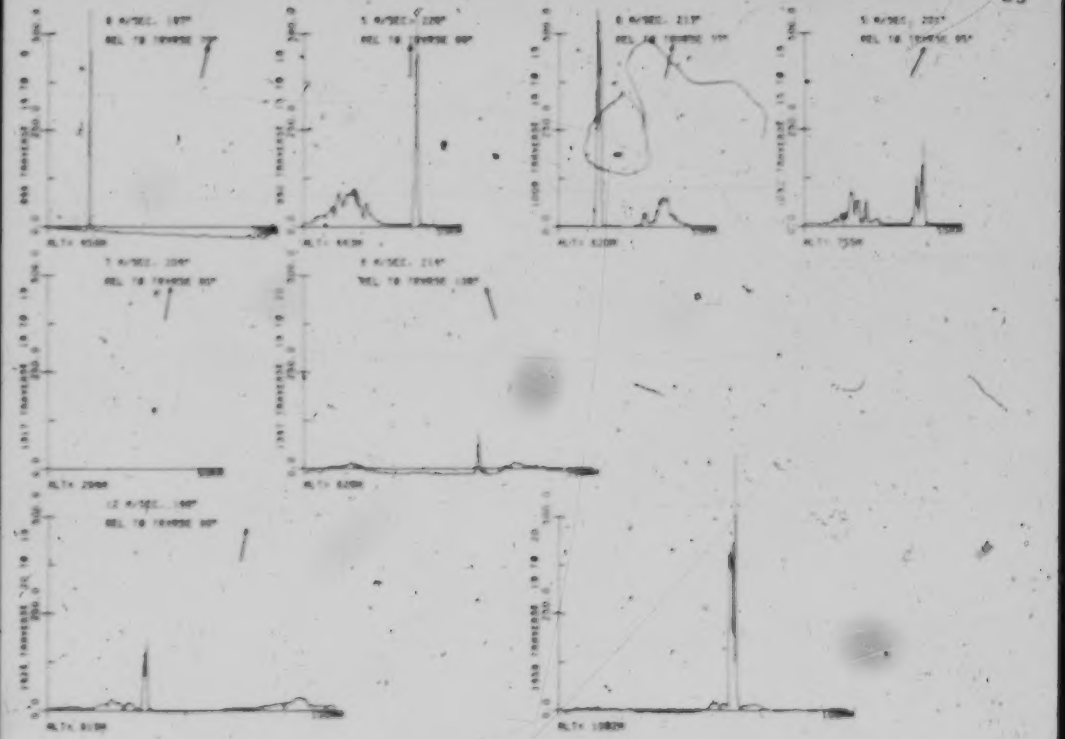


NO2 IN P.P.B.

MAP

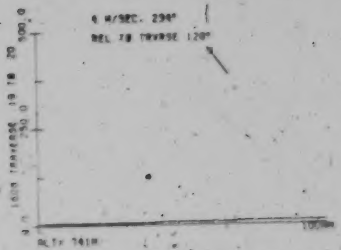






SBZ IN P.P.B.

MAP 2

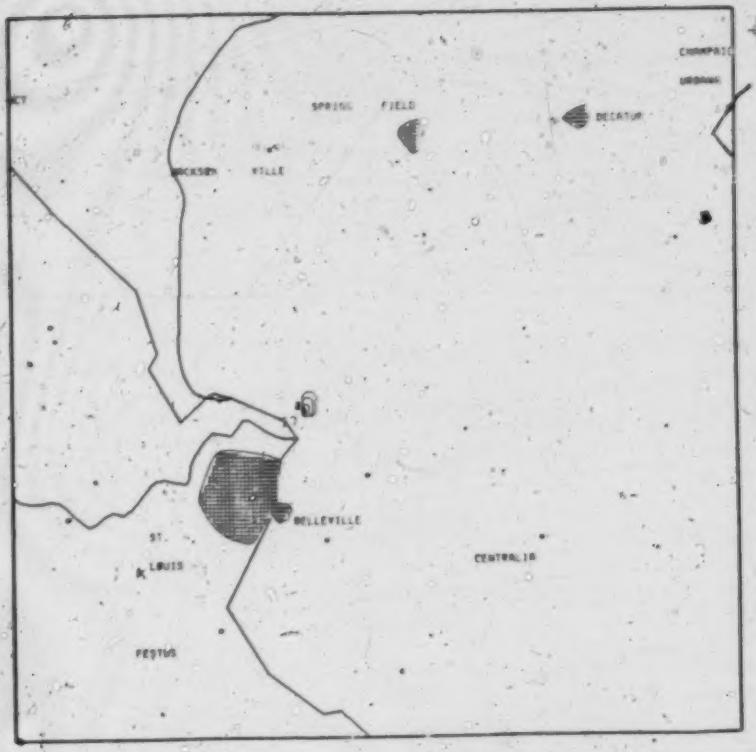


SO2 IN P.P.B.

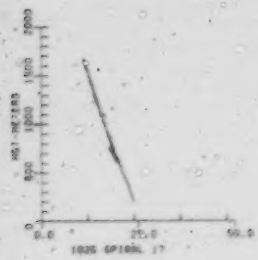
MAP

6037276

MAP 2

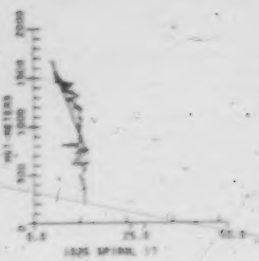


EXHIBIT



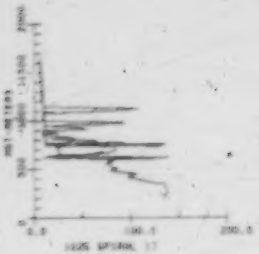
TEMP IN DEGREES C

MAP 2



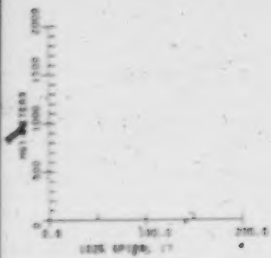
DEWPOINT IN DEGREES C

MAP



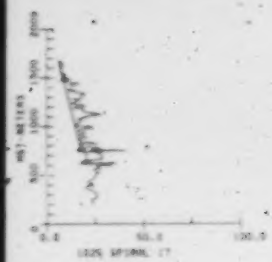
CNC IN $10^3 cm^{-3}$

MAP 2



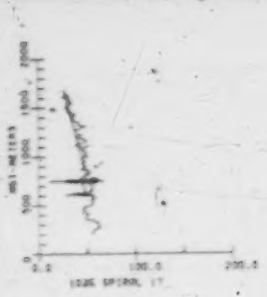
CHARGE IN MILLIVOLTS

MAP-2



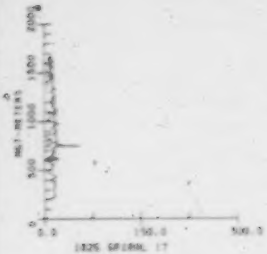
BSCAT IN 10

MAP 2



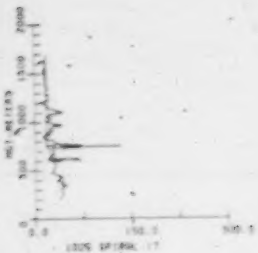
83 IN P.P.B.

MAP



NB IN P.P.B.

MRP 2


0
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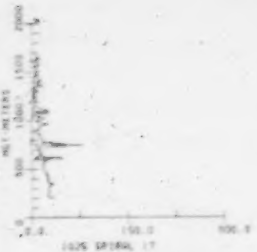
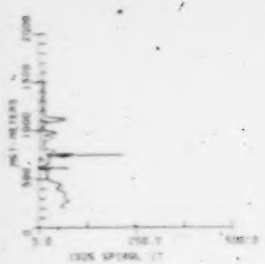
300.1



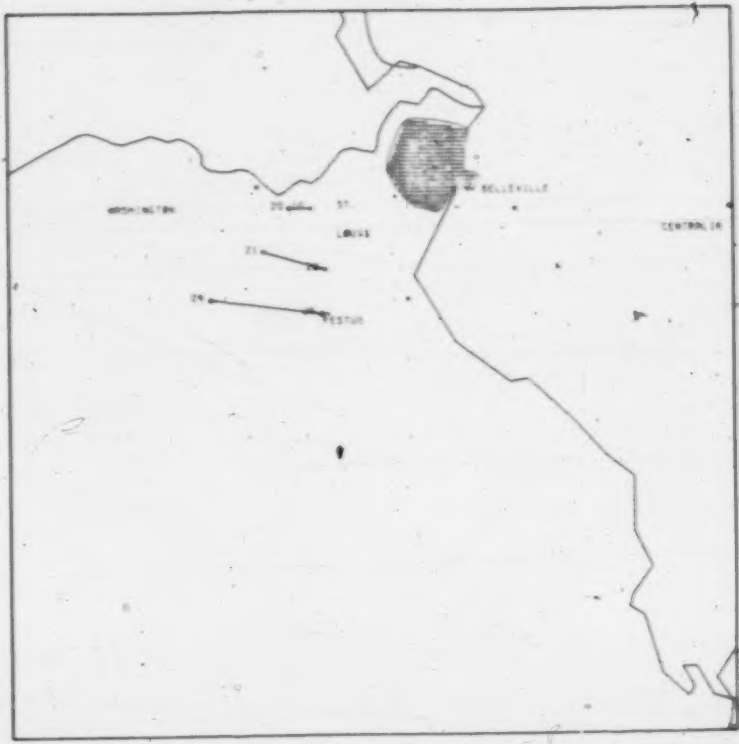
NOZ IN P.P.B.

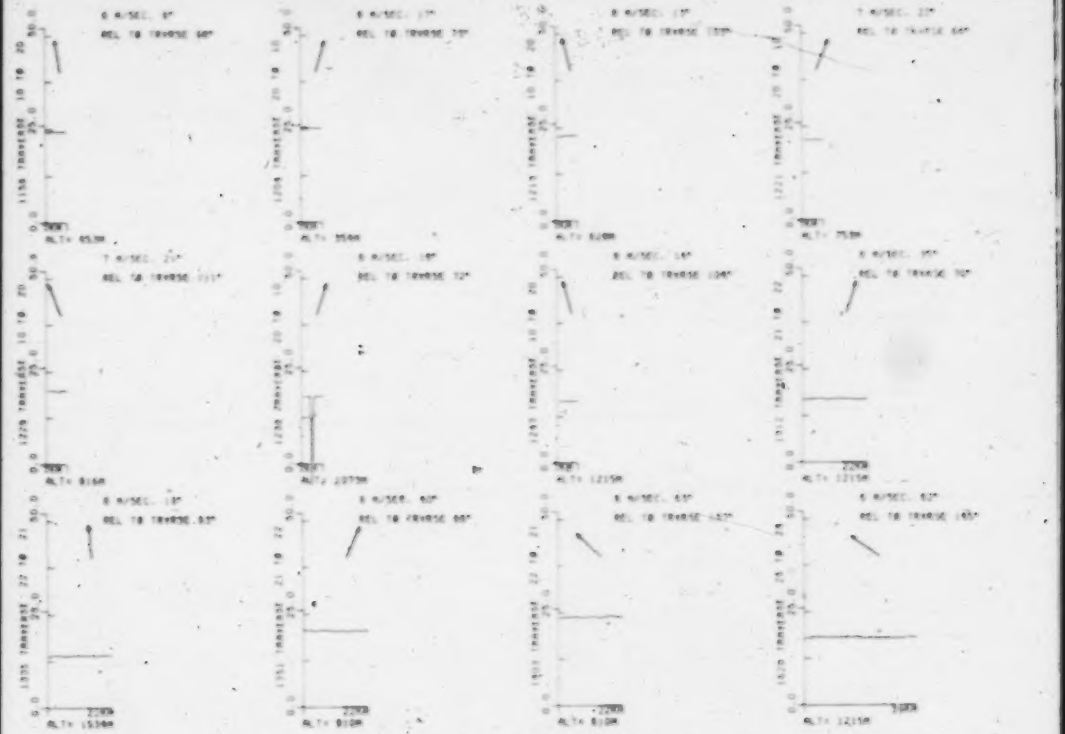


SEE IN P.P.B. MOP

6057576

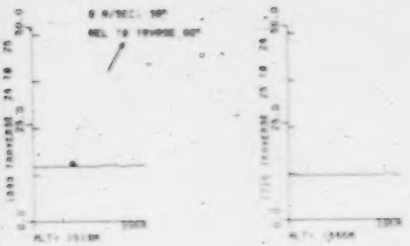
MAP 3





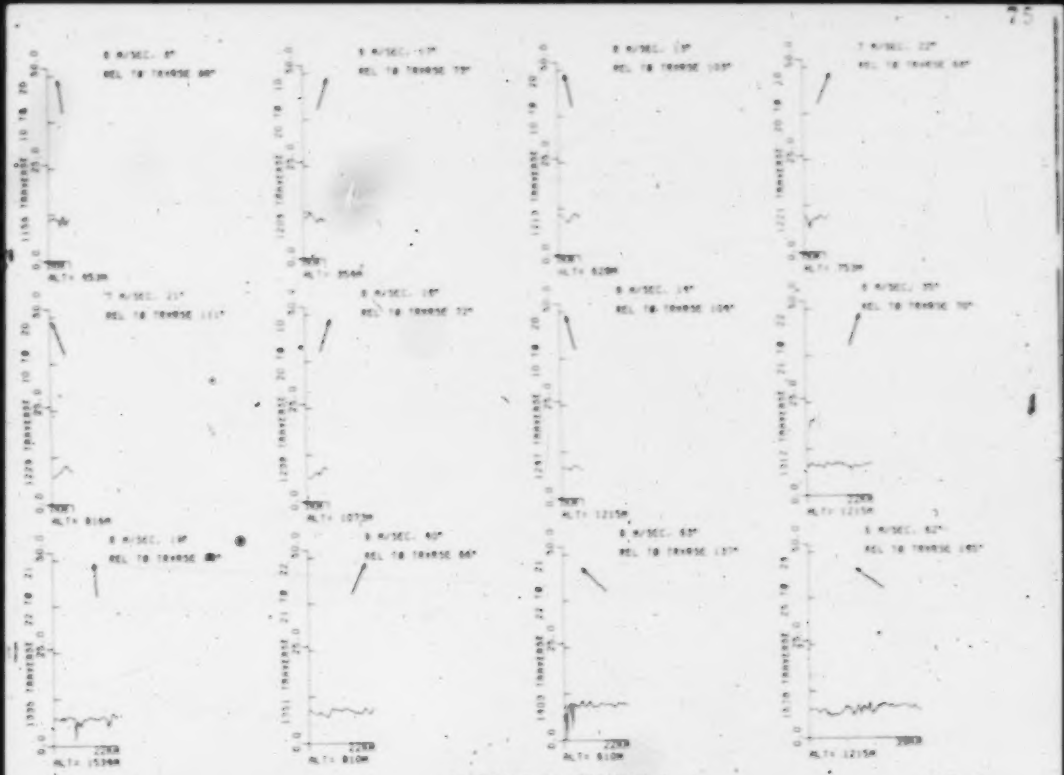
TEMP IN DEGREES C

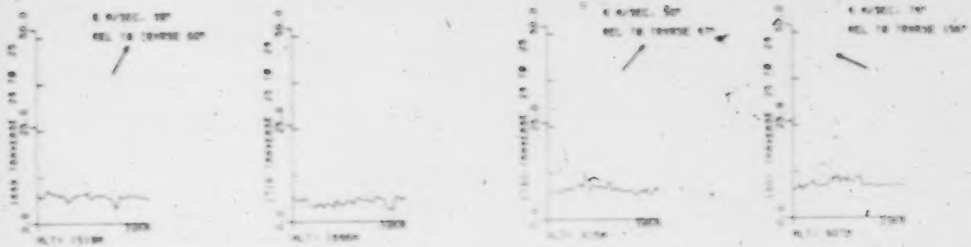
MAP 3



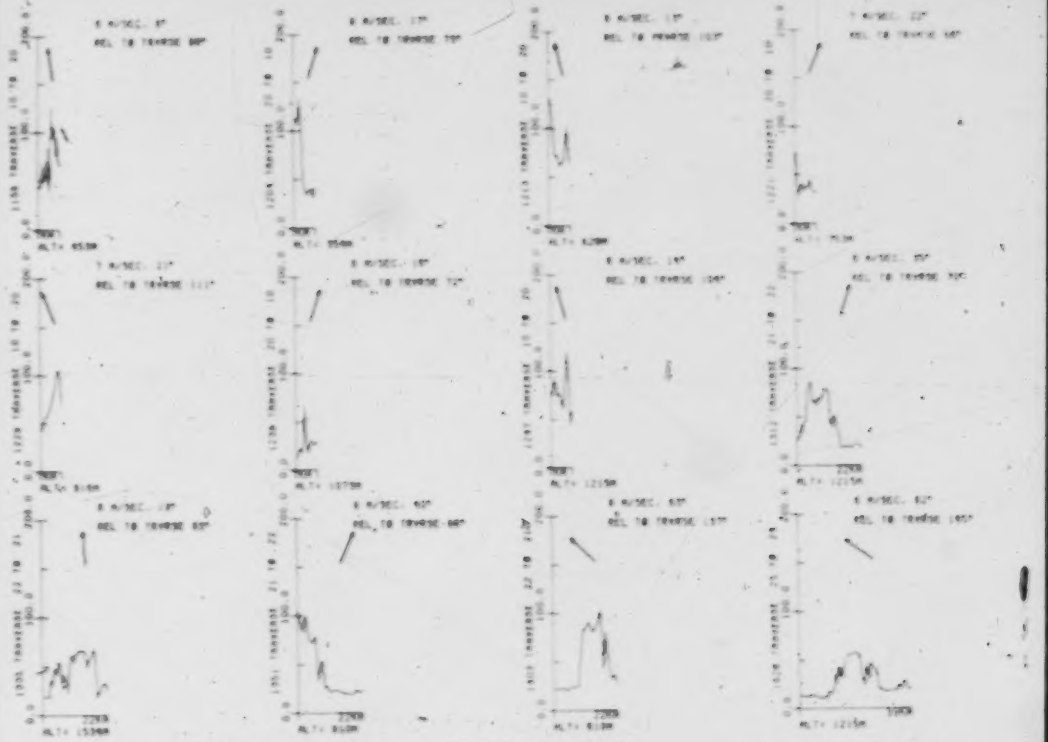
TEMP IN DEGREES C

MAP


DEWPOINT IN DEGREES C
MAP 3

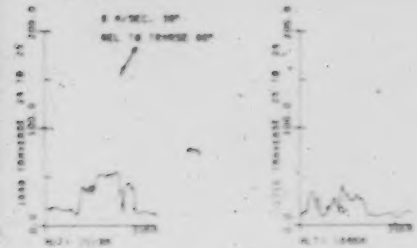


DEWPOINT IN DEGREES C



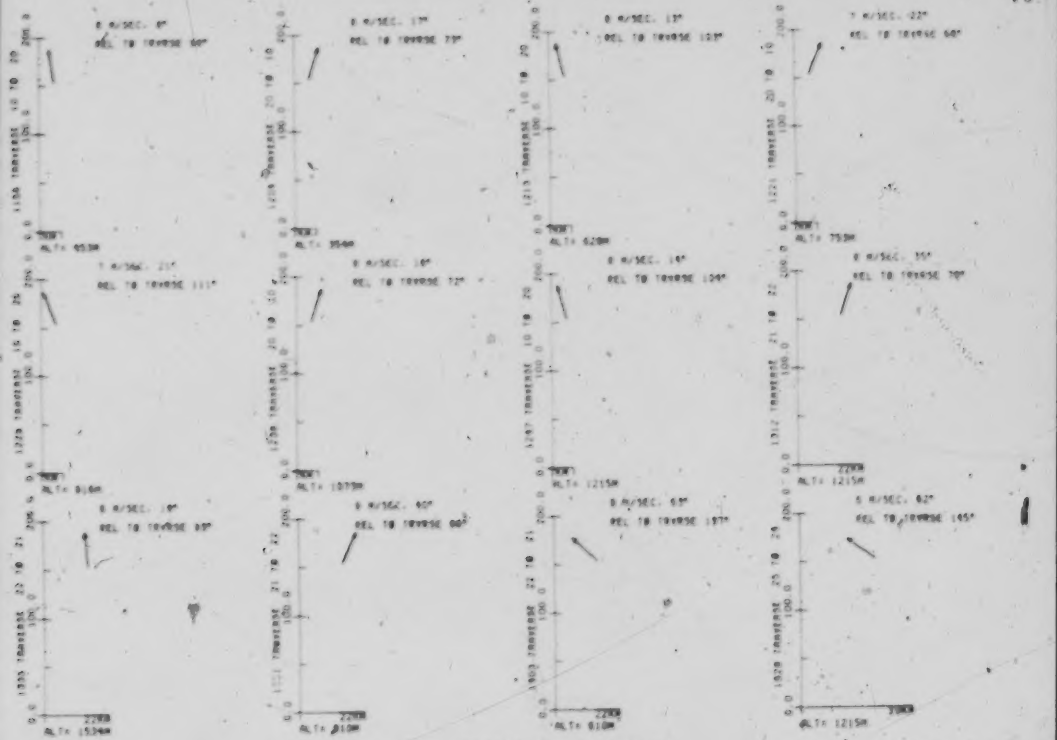
CNC IN $\cdot 10^3 CM^{-3}$

MAP



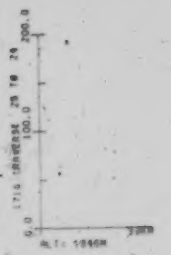
CNC IN $10^5 cm^{-3}$

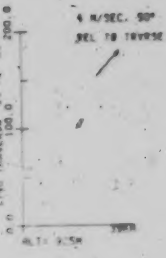
MAP 3



CHARGE IN MICLIVOLTS

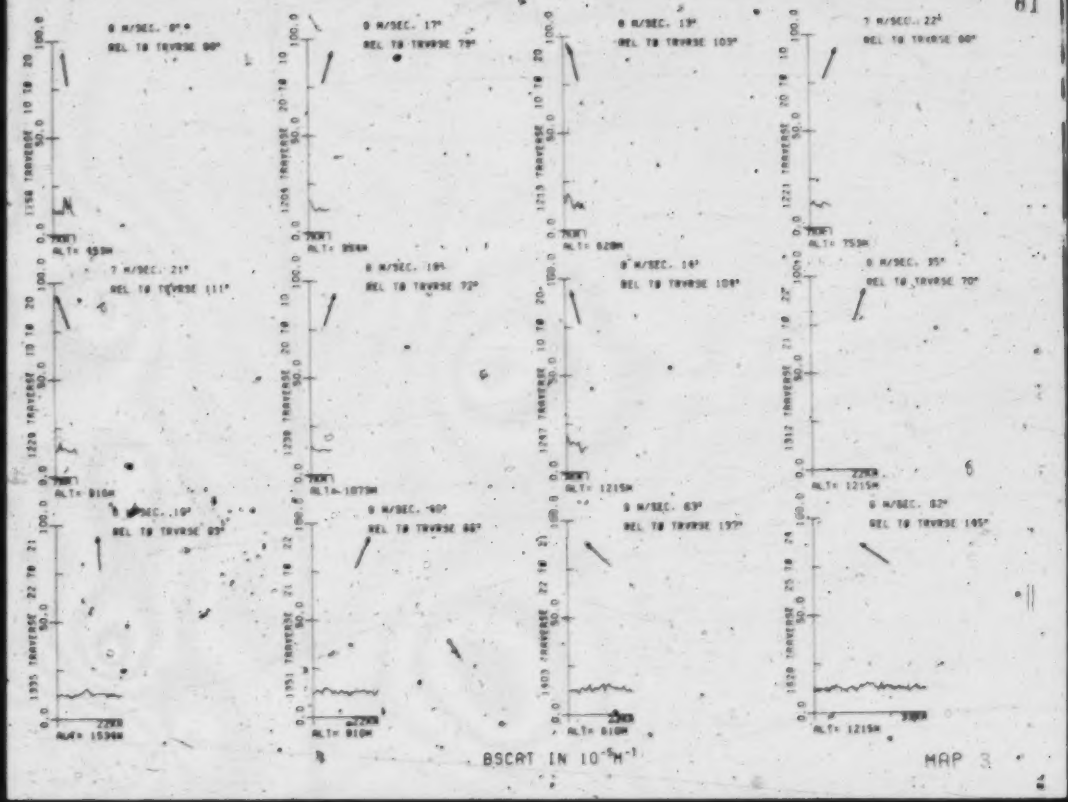
MAP 3

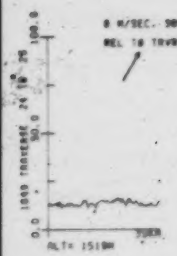


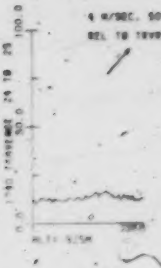


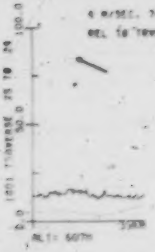
CHARGE IN MILLIVOLTS

MAP 13


0 M/SEC. 0°
REL TO TRVRSE 90°
0 M/SEC. 17°
REL TO TRVRSE 79°
0 M/SEC. 13°
REL TO TRVRSE 103°
7 M/SEC. 22°
REL TO TRVRSE 90°
7 M/SEC. 21°
REL TO TRVRSE 111°
0 M/SEC. 18°
REL TO TRVRSE 72°
0 M/SEC. 16°
REL TO TRVRSE 108°
0 M/SEC. 35°
REL TO TRVRSE 70°
0 M/SEC. 19°
REL TO TRVRSE 83°
0 M/SEC. 40°
REL TO TRVRSE 86°
0 M/SEC. 63°
REL TO TRVRSE 157°
0 M/SEC. 82°
REL TO TRVRSE 105°
BSCAT IN $10^{-5}M^{-1}$
MAP 3

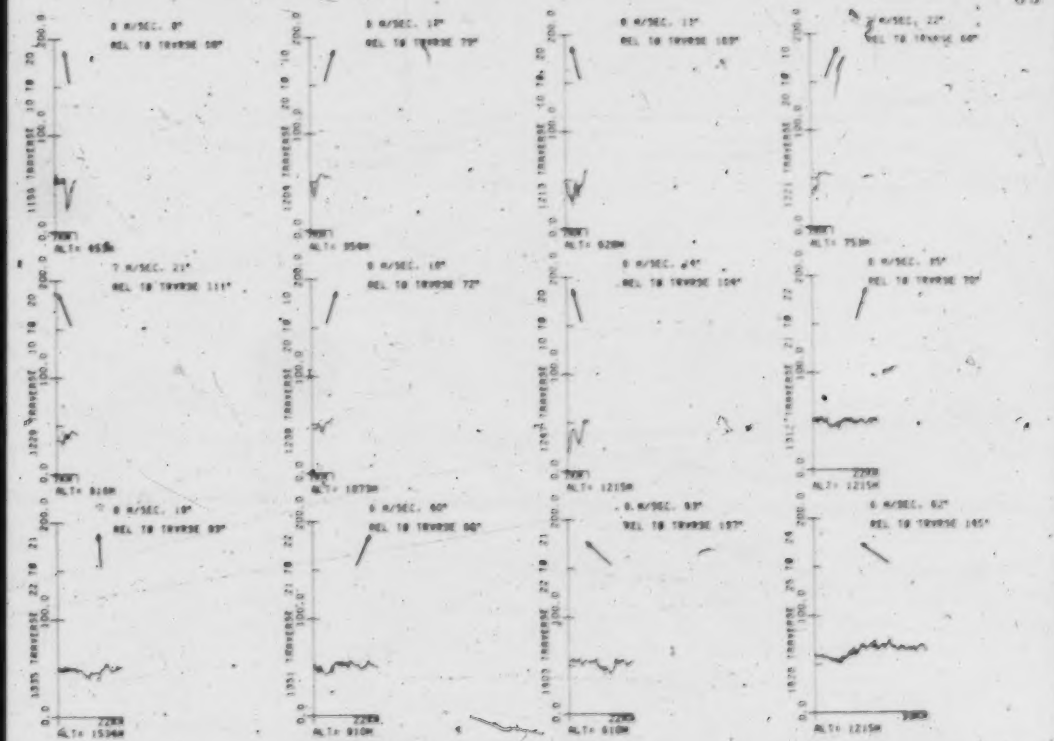




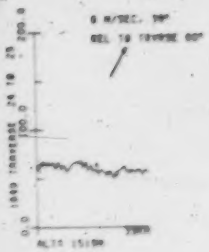


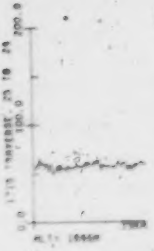
BSCAT IN $10^{-5}M^{-1}$

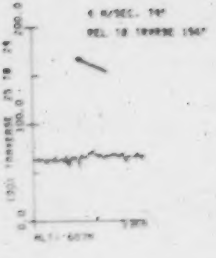
MAP


0 m/SEC. 0°
REL TO TRYRSE 50°
ALT+ 455M
0 m/SEC. 12°
REL TO TRYRSE 79°
ALT+ 954M
0 m/SEC. 13°
REL TO TRYRSE 103°
ALT+ 928M
0 m/SEC. 22°
REL TO TRYRSE 60°
ALT+ 753M
7 m/SEC. 23°
REL TO TRYRSE 111°
ALT+ 810M
0 m/SEC. 10°
REL TO TRYRSE 72°
ALT+ 1073M
0 m/SEC. 4°
REL TO TRYRSE 104°
ALT+ 1215M
0 m/SEC. 35°
REL TO TRYRSE 70°
ALT+ 1215M
0 m/SEC. 10°
REL TO TRYRSE 93°
ALT+ 1534M
0 m/SEC. 60°
REL TO TRYRSE 90°
ALT+ 910M
0 m/SEC. 93°
REL TO TRYRSE 107°
ALT+ 610M
0 m/SEC. 62°
REL TO TRYRSE 105°
ALT+ 1215M

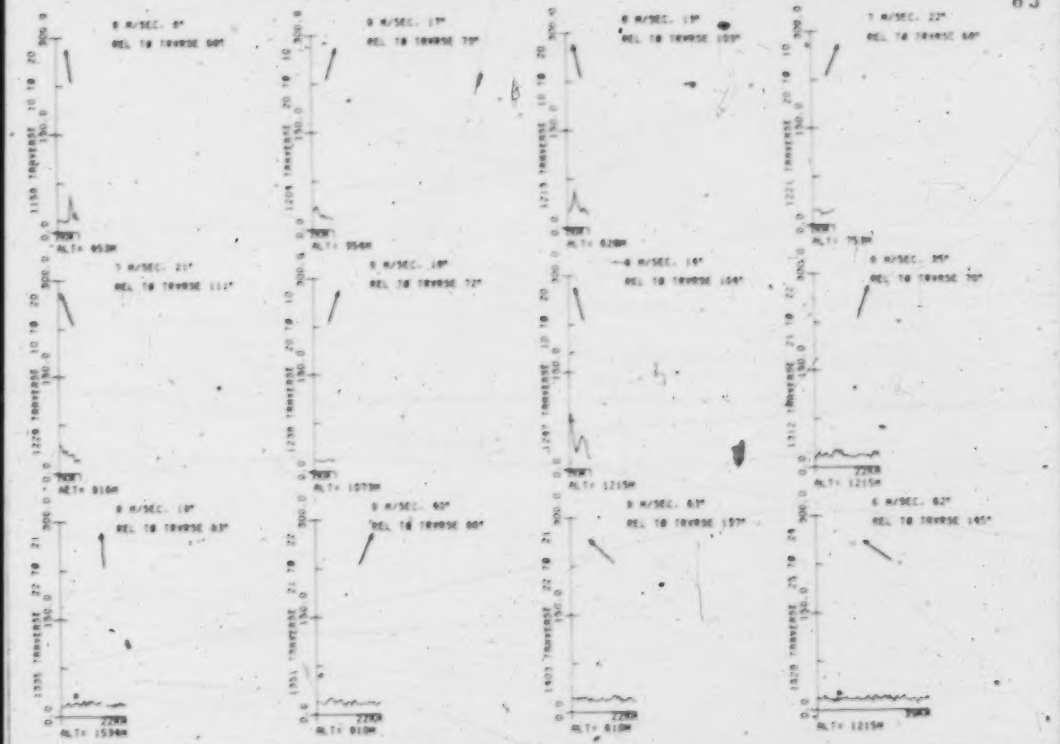
MAP 3







83 IN P.P.B.

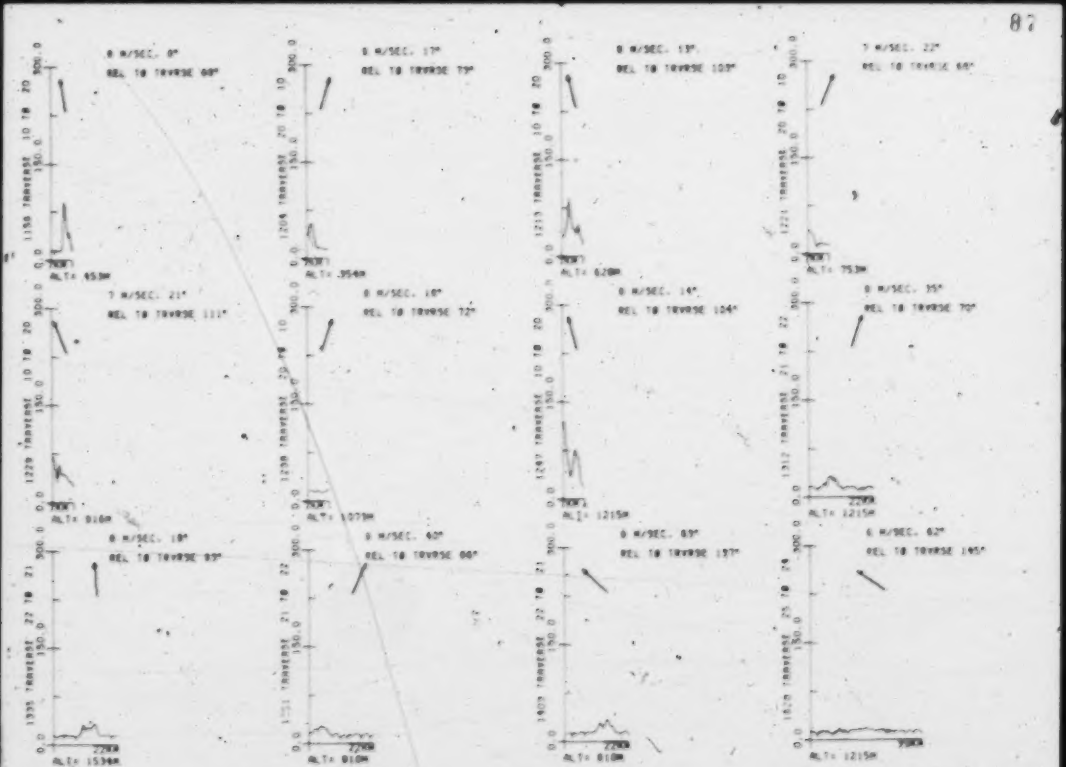


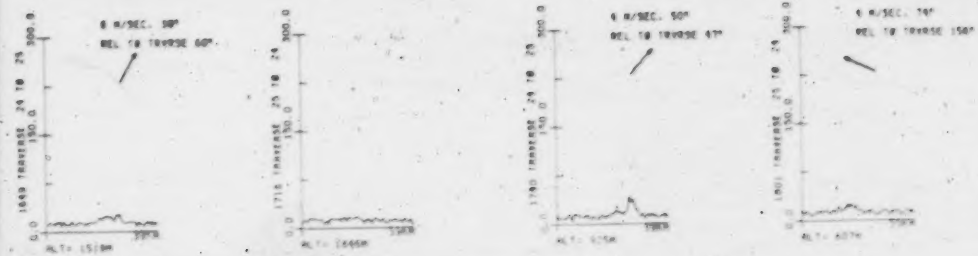
NB IN P.P.B.

MAP 3

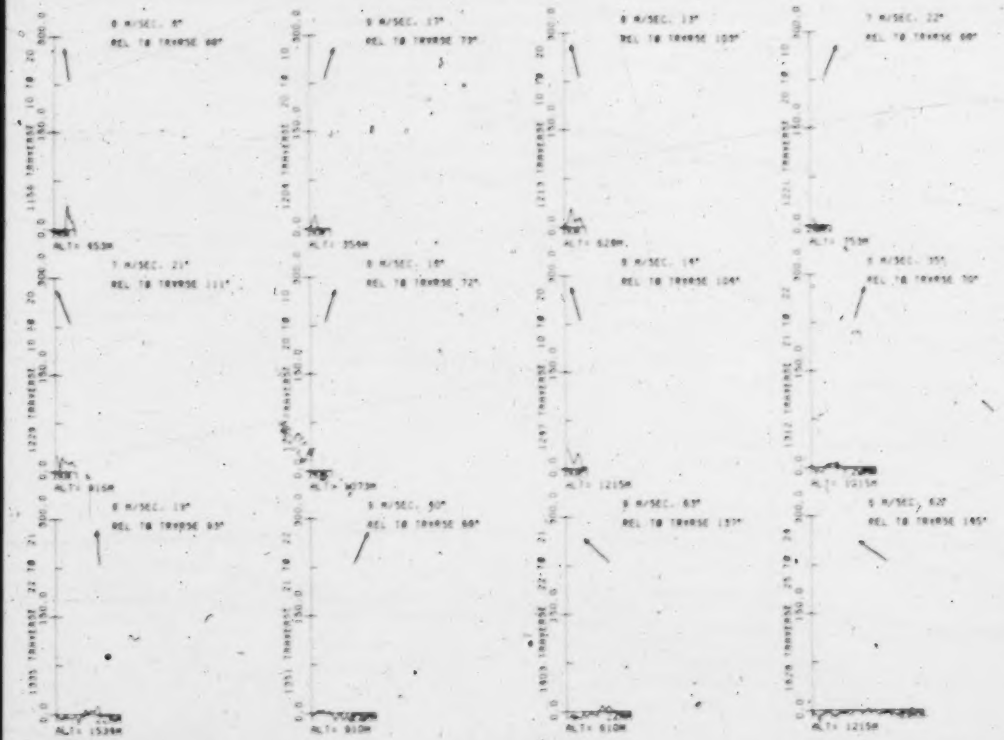
NO IN P.P.E.

MAP 3


0 M/SEC. 0°
REL TO TRVRSE 60°
ALT= 453M
0 M/SEC. 17°
REL TO TRVRSE 79°
ALT= 3549
0 M/SEC. 13°
REL TO TRVRSE 103°
ALT= 628M
7 M/SEC. 22°
REL TO TRVRSE 66°
ALT= 753M
7 M/SEC. 21°
REL TO TRVRSE 111°
ALT= 916M
0 M/SEC. 10°
REL TO TRVRSE 72°
ALT= 1077M
0 M/SEC. 14°
REL TO TRVRSE 104°
ALT= 1215M
0 M/SEC. 35°
REL TO TRVRSE 70°
ALT= 1215M
0 M/SEC. 10°
REL TO TRVRSE 93°
ALT= 1534M
0 M/SEC. 40°
REL TO TRVRSE 88°
ALT= 810M
0 M/SEC. 89°
REL TO TRVRSE 137°
ALT= 810M
6 M/SEC. 82°
REL TO TRVRSE 105°
ALT= 1215M
NOX IN P.P.B.
MAP 3

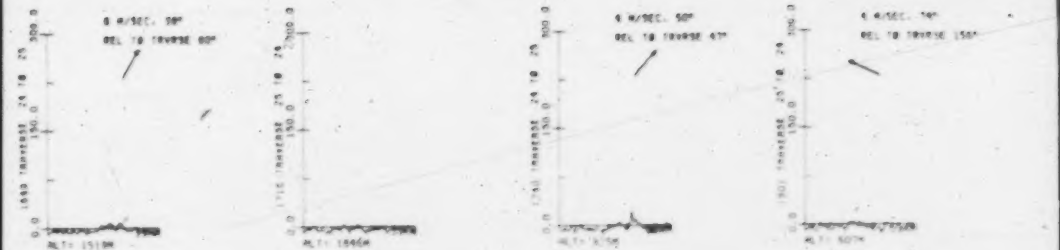

6 M/SEC. 50°
REL TO TRVRSE 60°
6 M/SEC. 50°
REL TO TRVRSE 47°
6 M/SEC. 70°
REL TO TRVRSE 150°

NOW IN P.P.B.

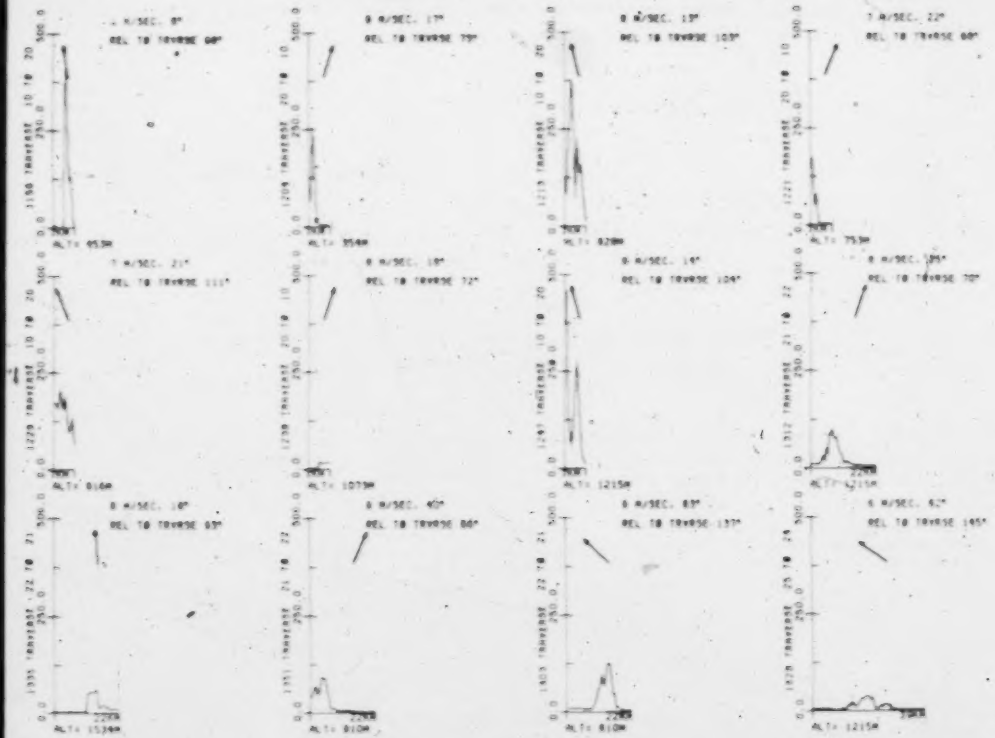


N82 IN P.P.B.

MAP 3

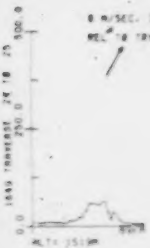


NØ2 IN P.P.B.



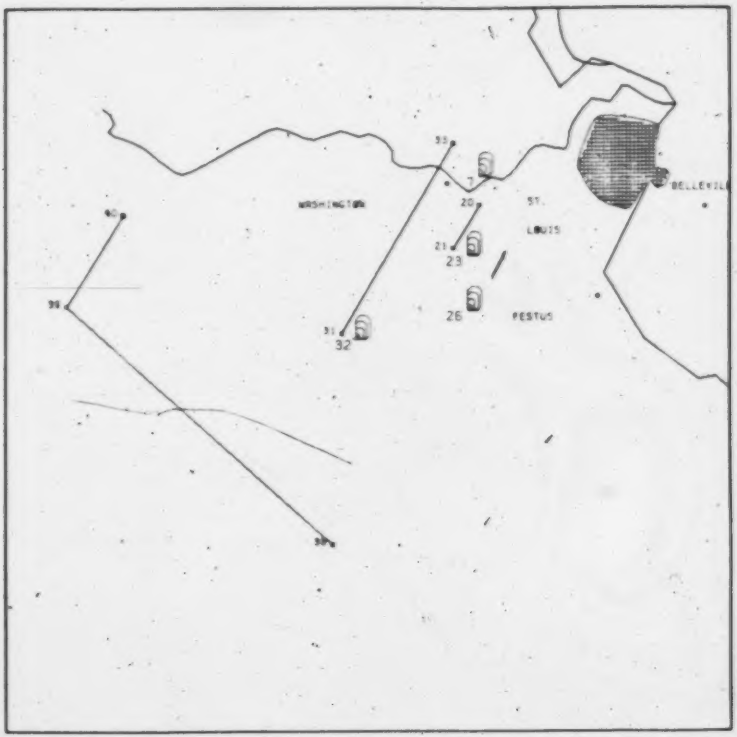
SO2 IN P.P.B.

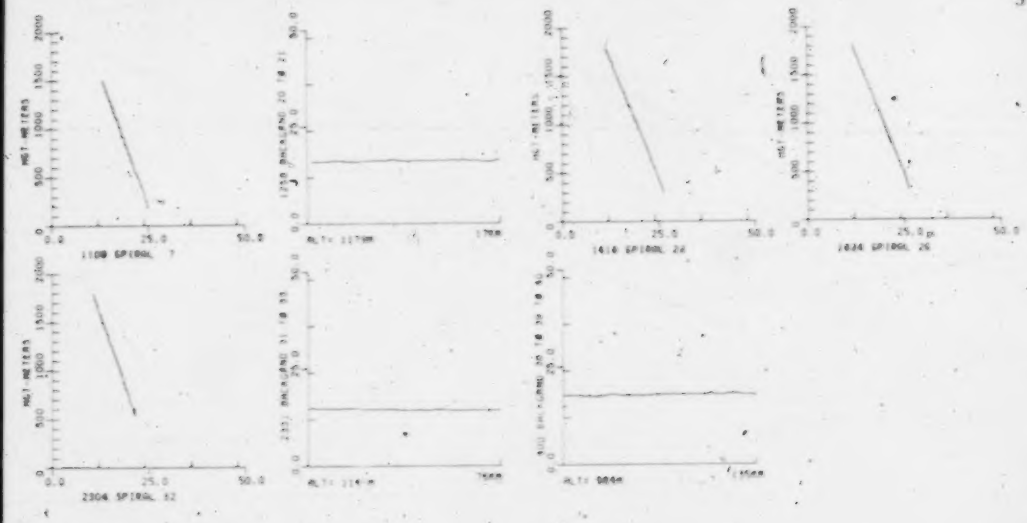
MAP 3



6057576

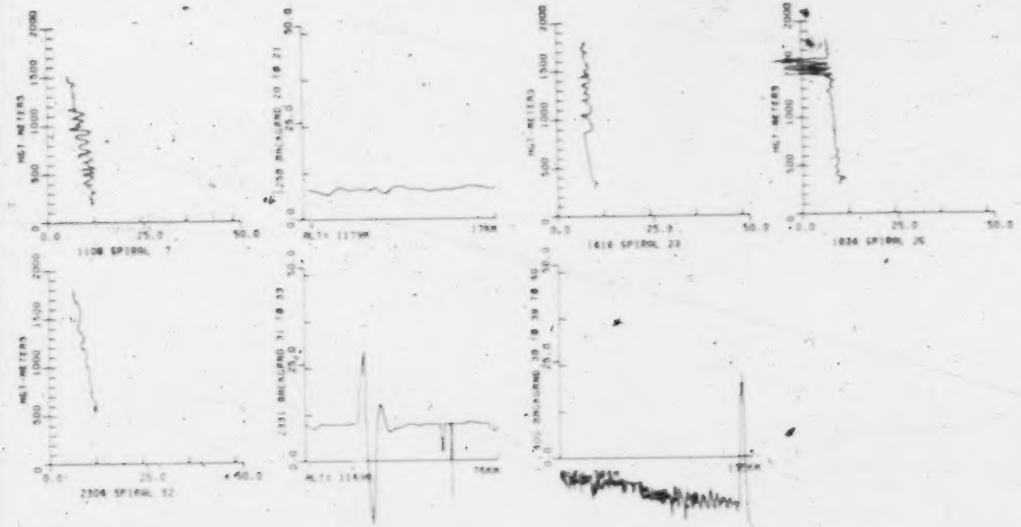
MAP 3





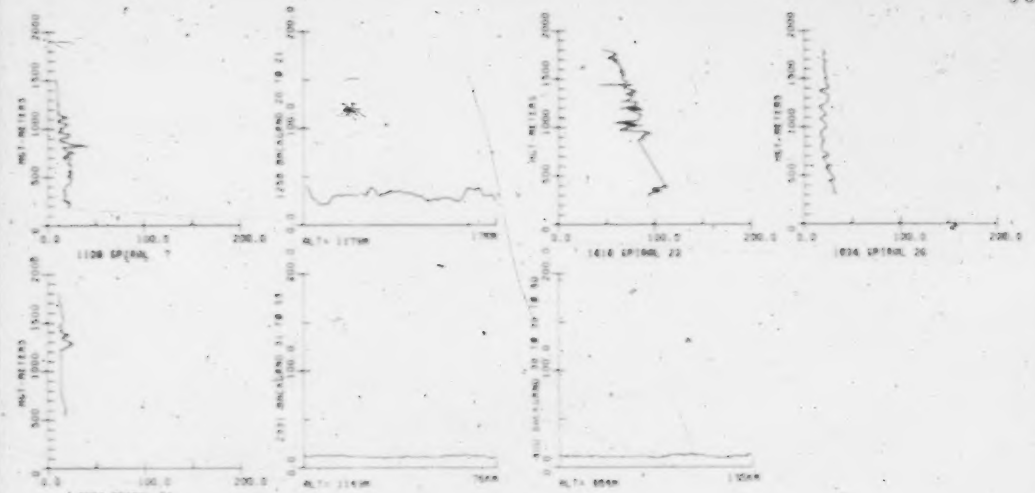
TEMP IN DEGREES C

MAP 3



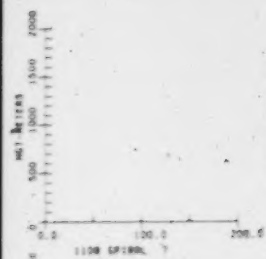
DEWPOINT IN DEGREES C

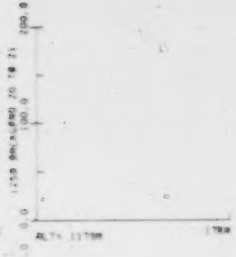
MAP 3

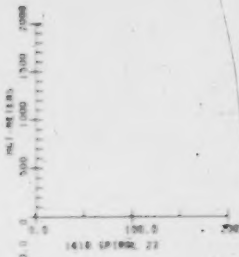


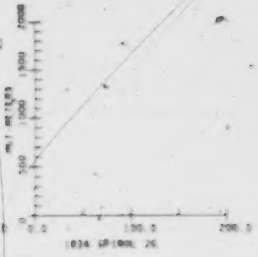
CNC IN $10^3 CM^{-3}$

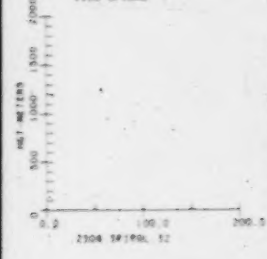
MAP 3

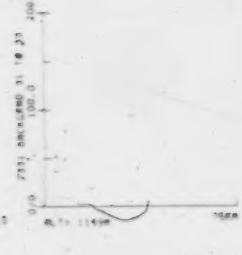


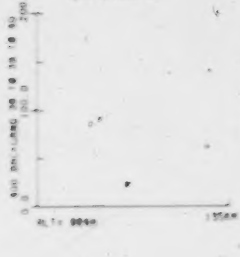






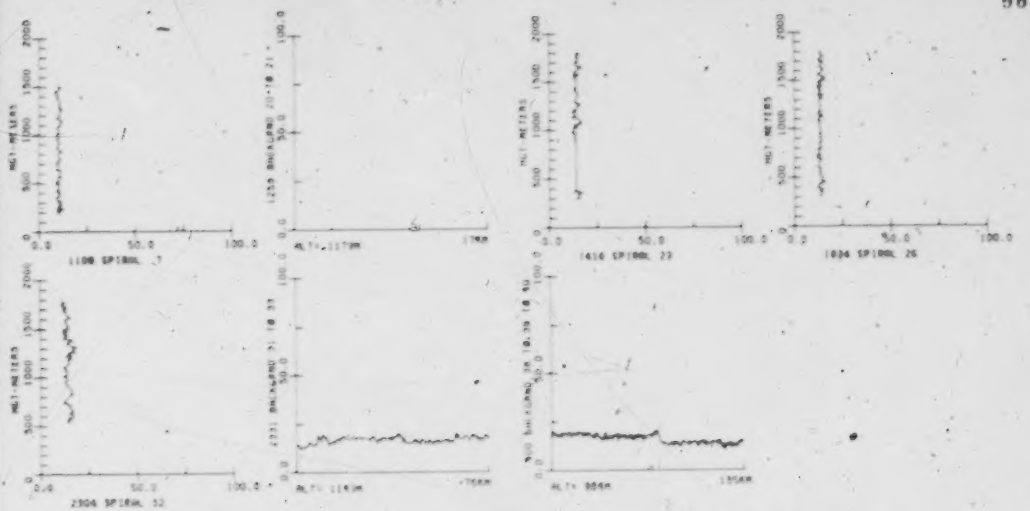






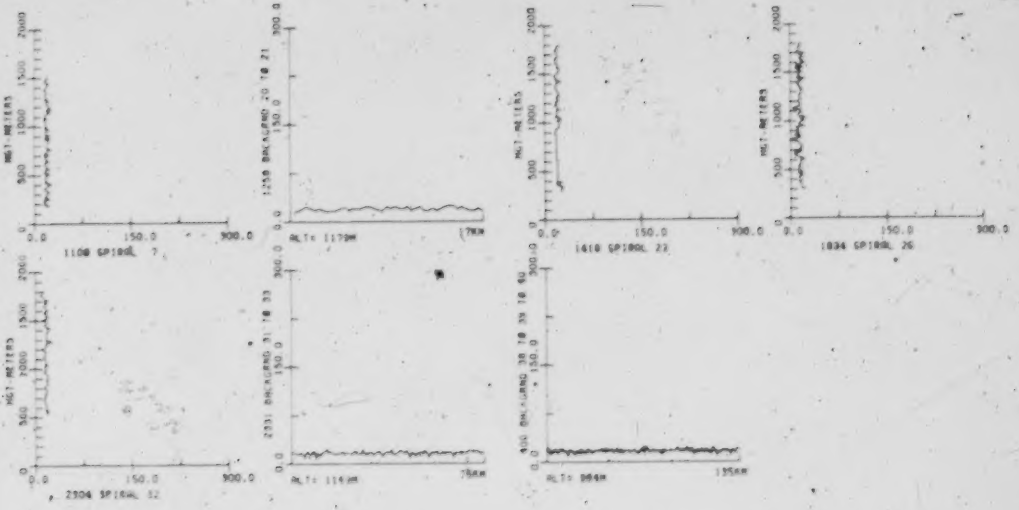
CHARGE IN MILLIVOLTS

MAP 3



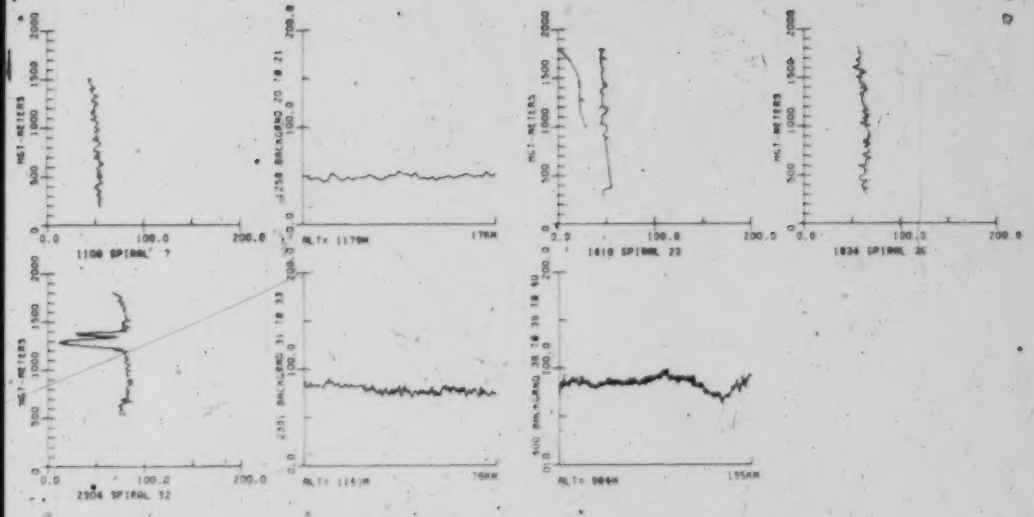
BSCAT IN $10^{-6}m^{-1}$

MAP 3



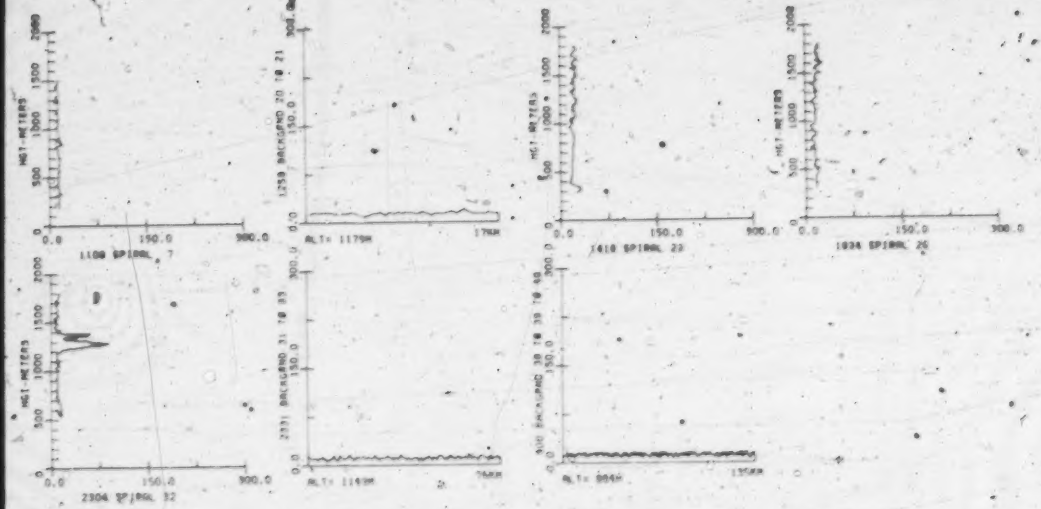
NØ IN P.P.B.

MAP 3



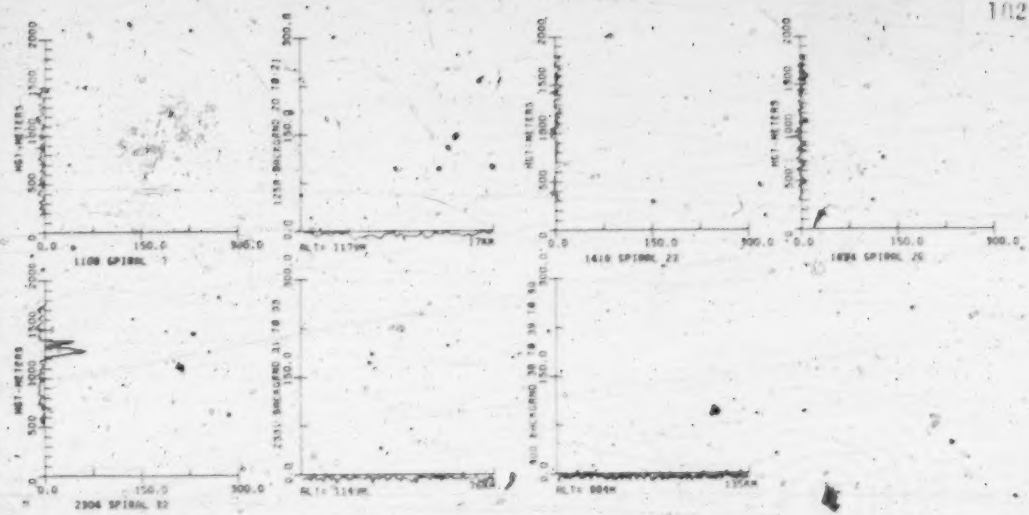
93 IN P.P.B.

MAP 3.



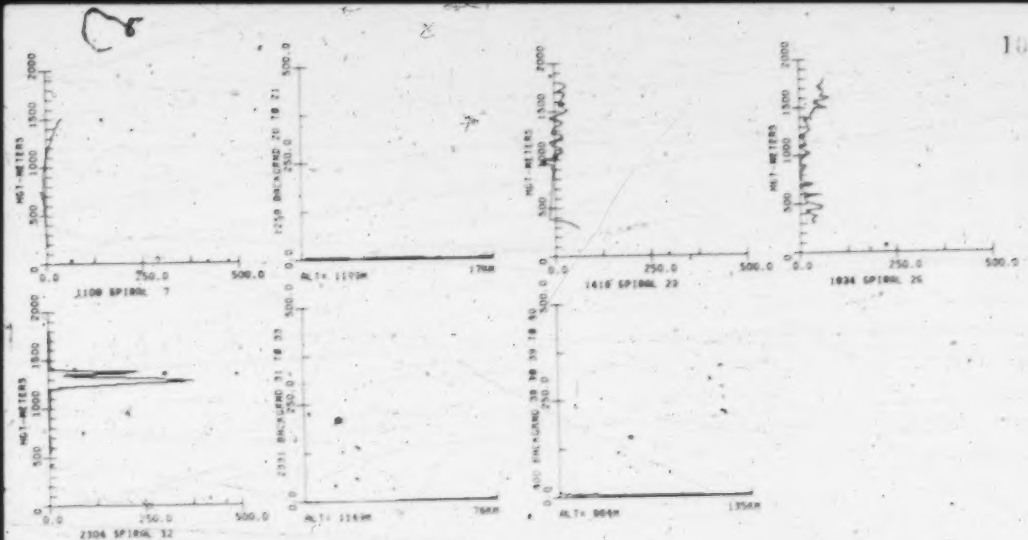
NOX IN P.P.B.

MAP 3



NØ2 IN P.P.B.

MAP 3

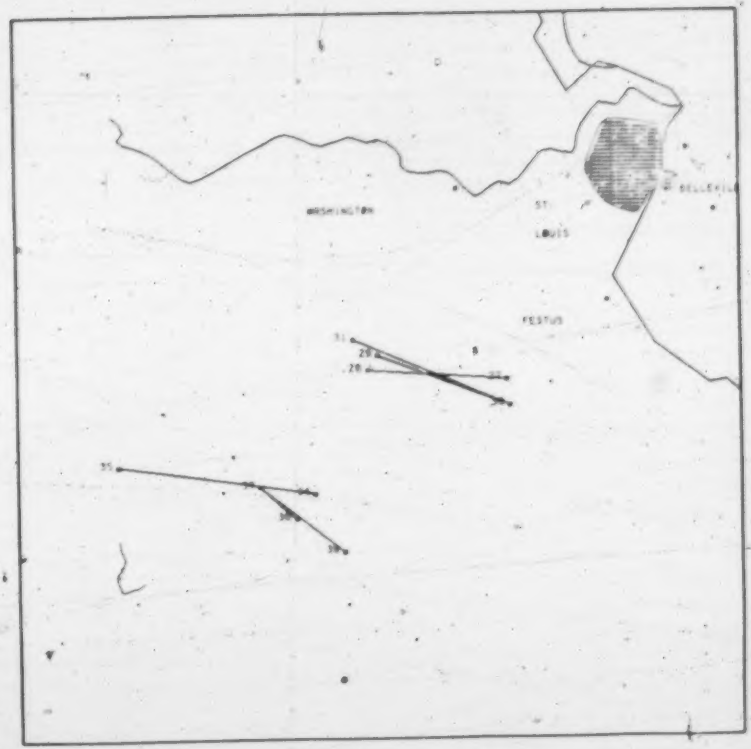


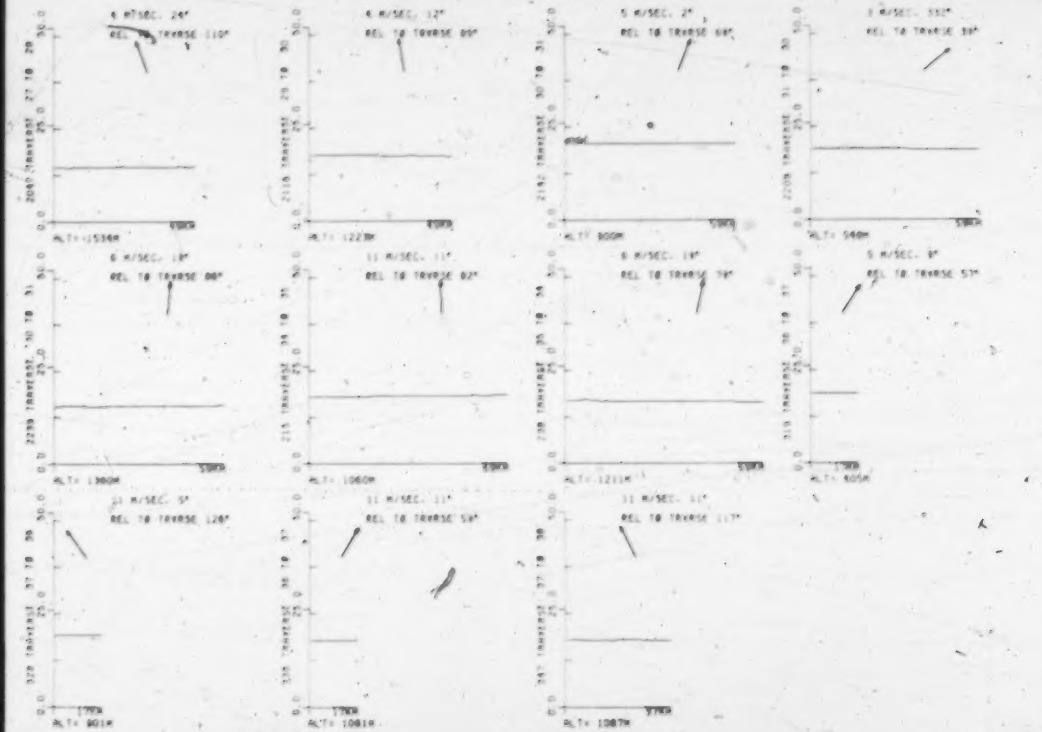
SO2 IN P.P.B.

MAP 3

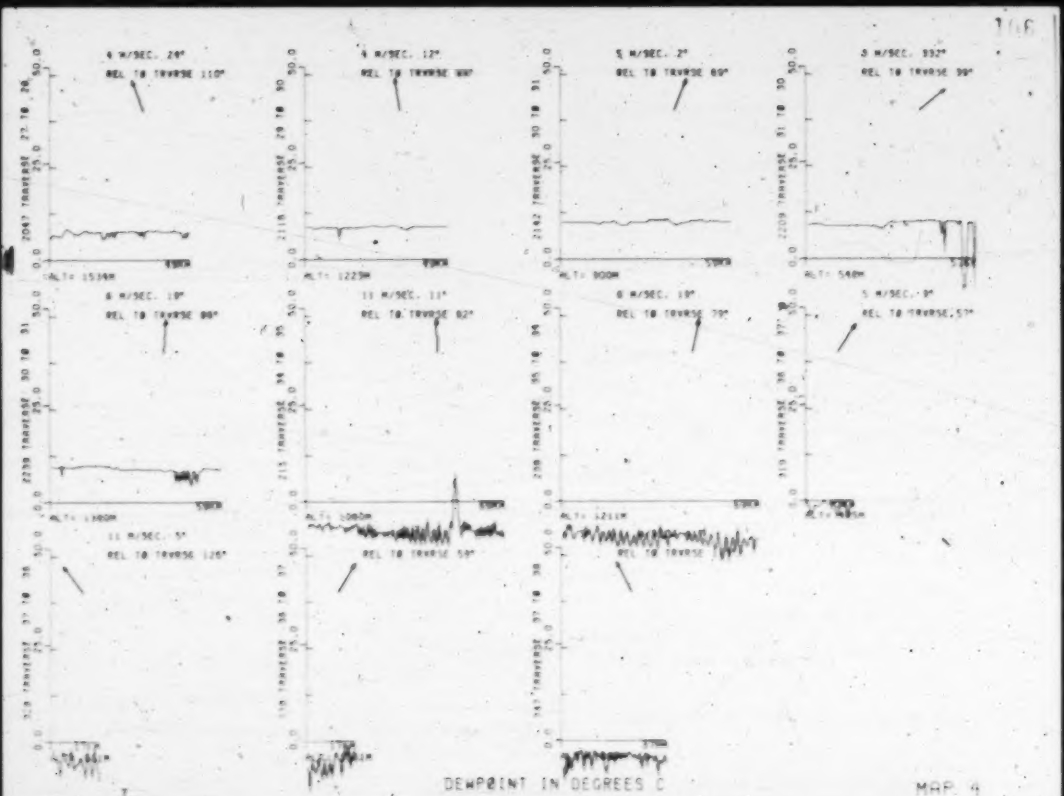
6077576

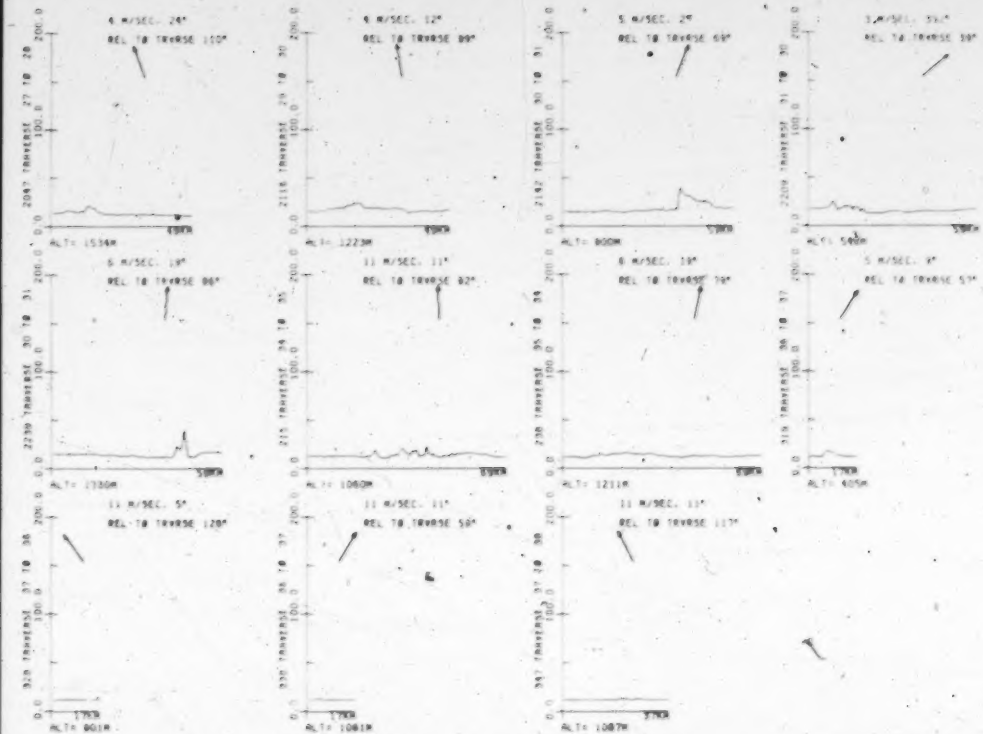
MAP 4





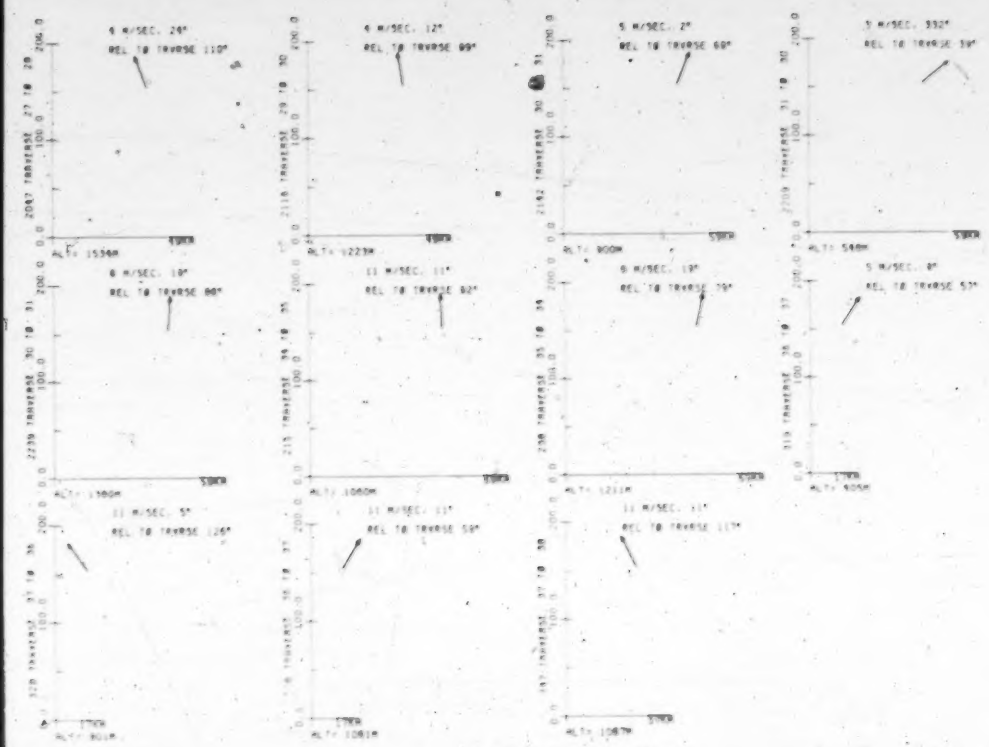
MAP 4


DEWPOINT IN DEGREES C
MAP 4

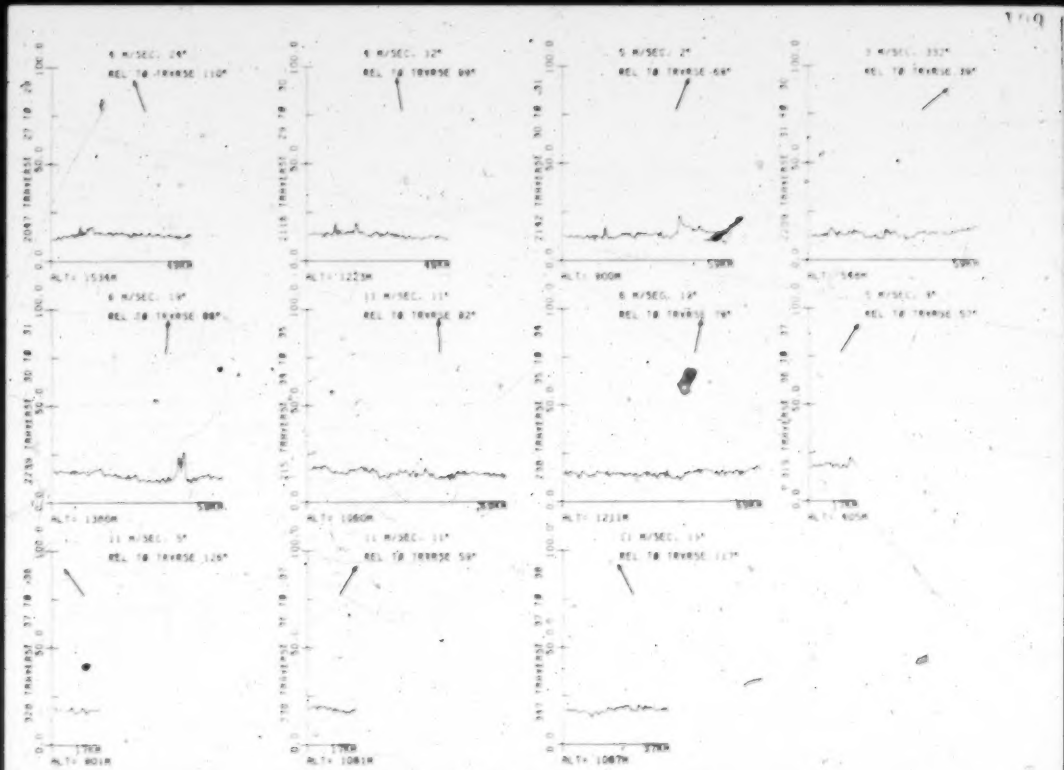


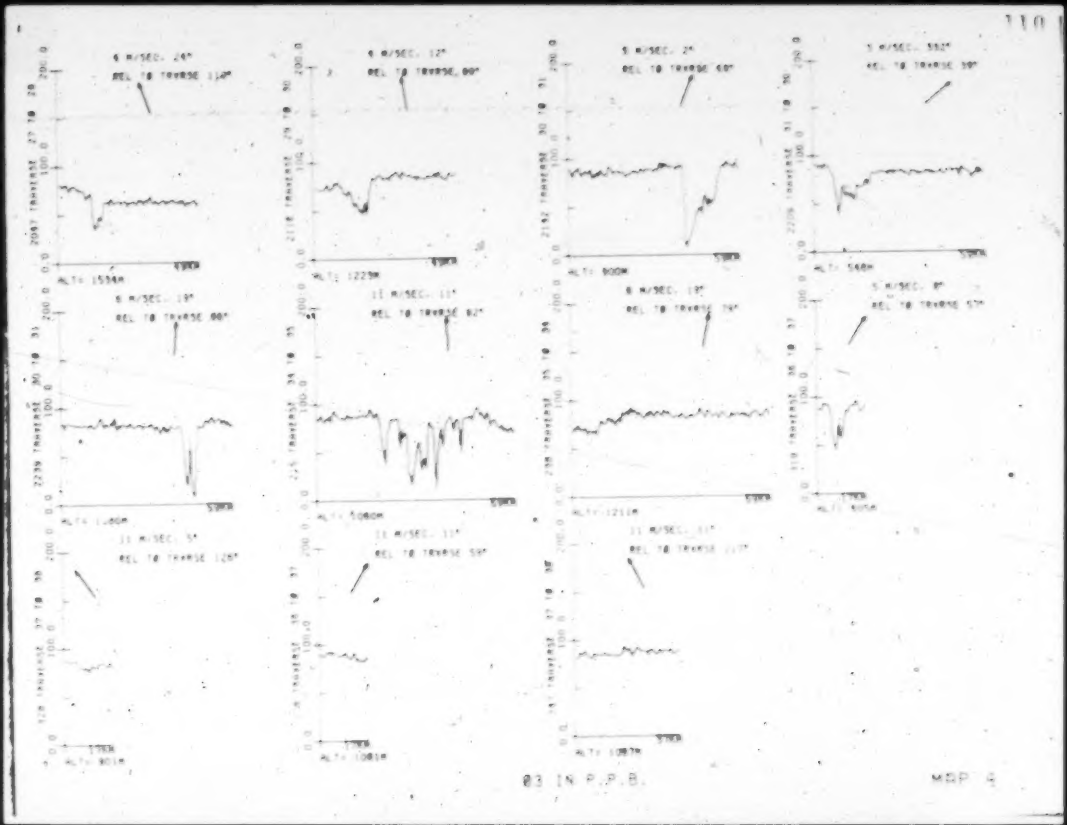
CNC IN $10^3 CM^{-3}$

MAP 4


6 M/SEC. 24°
REL TO TRVRSE 110°
ALT: 1534M
6 M/SEC. 12°
REL TO TRVRSE 99°
ALT: 1223M
5 M/SEC. 2°
REL TO TRVRSE 68°
ALT: 900M
5 M/SEC. 332°
REL TO TRVRSE 39°
ALT: 540M
6 M/SEC. 10°
REL TO TRVRSE 80°
ALT: 1360M
11 M/SEC. 11°
REL TO TRVRSE 82°
ALT: 1060M
6 M/SEC. 13°
REL TO TRVRSE 79°
ALT: 1211M
5 M/SEC. 8°
REL TO TRVRSE 57°
ALT: 905M
11 M/SEC. 5°
REL TO TRVRSE 126°
11 M/SEC. 11°
REL TO TRVRSE 58°
11 M/SEC. 11°
REL TO TRVRSE 117°
CHARGE IN MILLIVOLTS

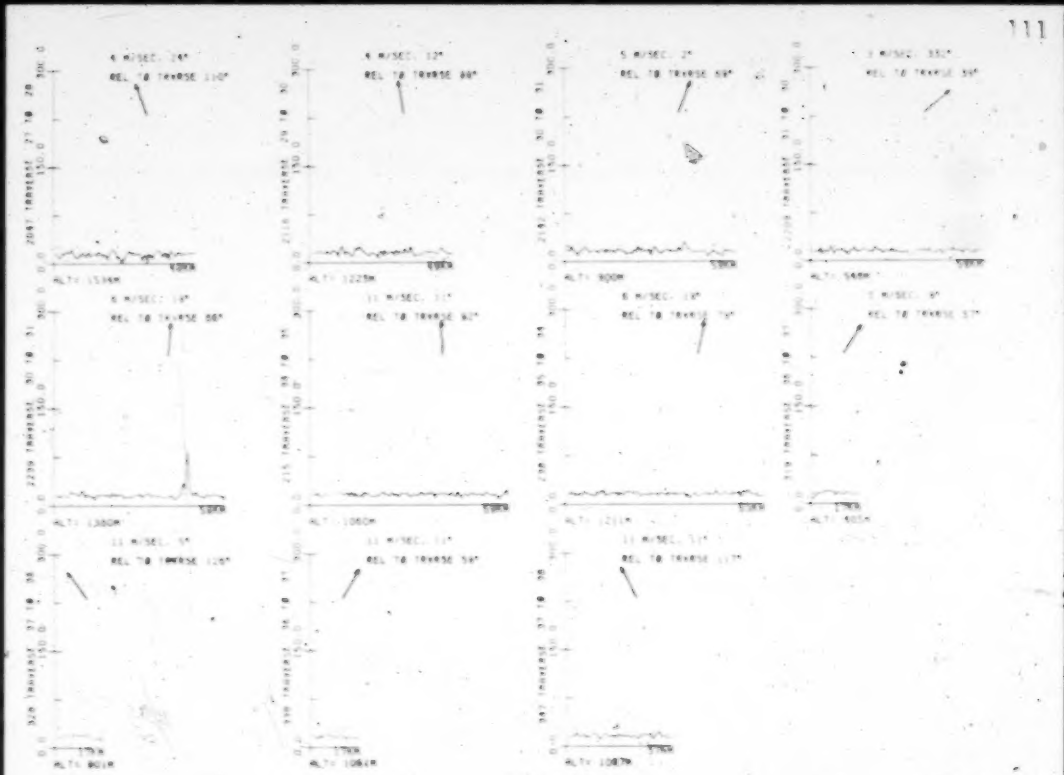
MAP 4


6 M/SEC. 24°
REL TO TRANSE 110°
ALT= 1534M
6 M/SEC. 12°
REL TO TRANSE 99°
ALT= 1223M
5 M/SEC. 2°
REL TO TRANSE 64°
ALT= 900M
3 M/SEC. 332°
REL TO TRANSE 30°
ALT= 546M
6 M/SEC. 14°
REL TO TRANSE 88°
ALT= 1360M
11 M/SEC. 11°
REL TO TRANSE 82°
ALT= 1060M
6 M/SEC. 14°
REL TO TRANSE 78°
ALT= 1211M
5 M/SEC. 9°
REL TO TRANSE 51°
ALT= 805M
11 M/SEC. 5°
REL TO TRANSE 126°
ALT= 801M
11 M/SEC. 11°
REL TO TRANSE 59°
ALT= 1081M
11 M/SEC. 14°
REL TO TRANSE 117°
ALT= 1087M
BSCAT IN 10⁻⁵M⁻¹
MAP 4



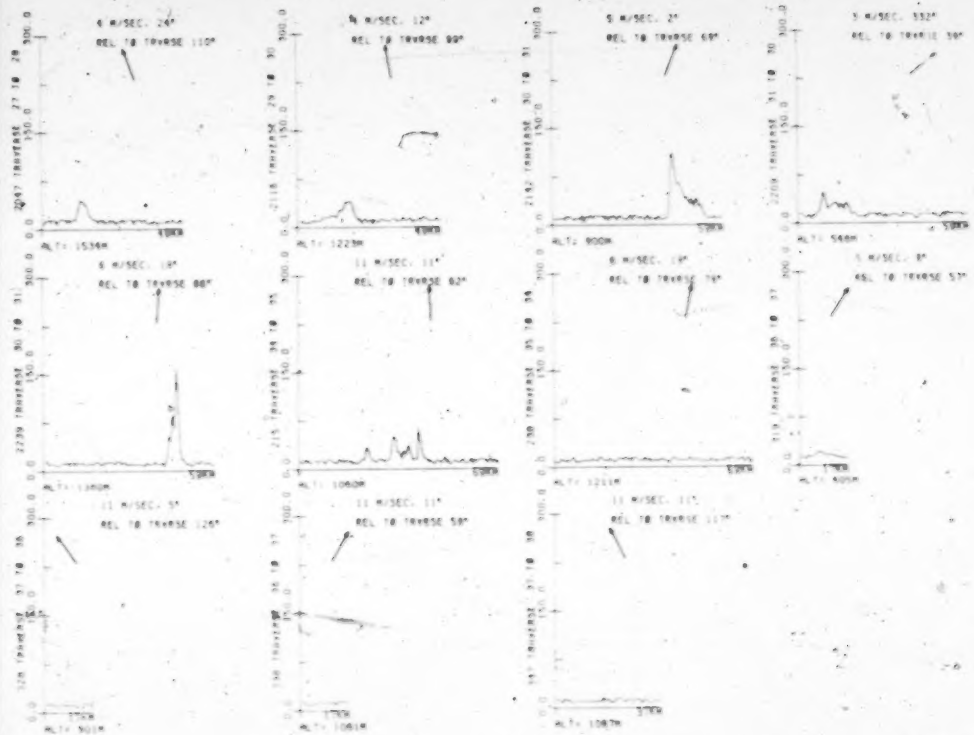
03 IN P.P.B.

MSP 5



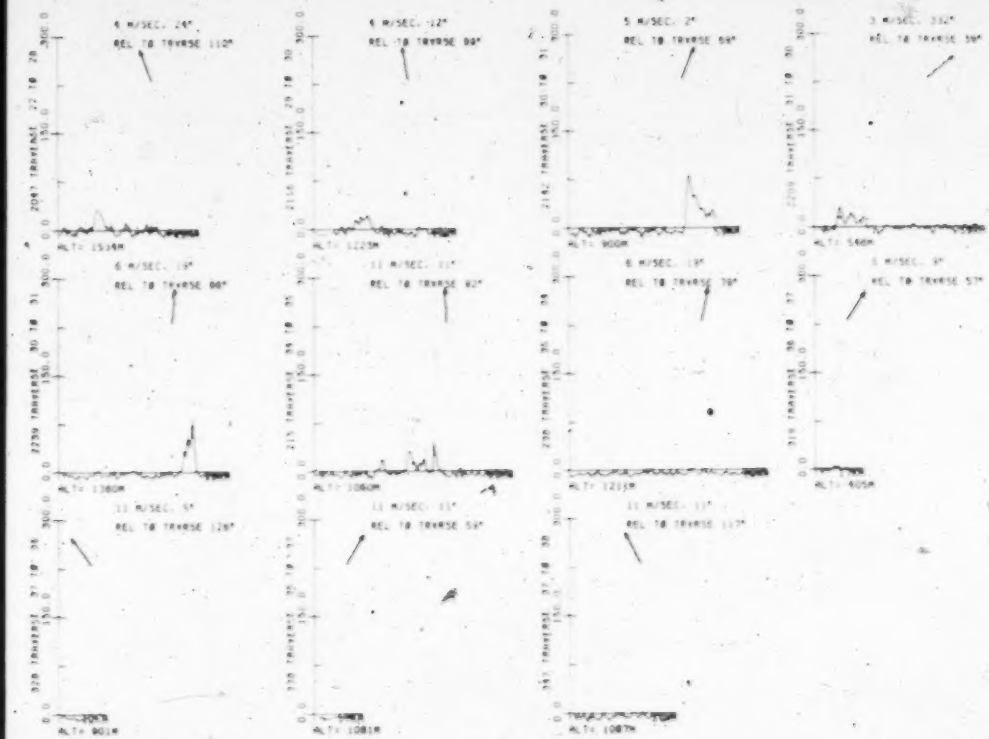
NO IN P.P.B.

MAP 4



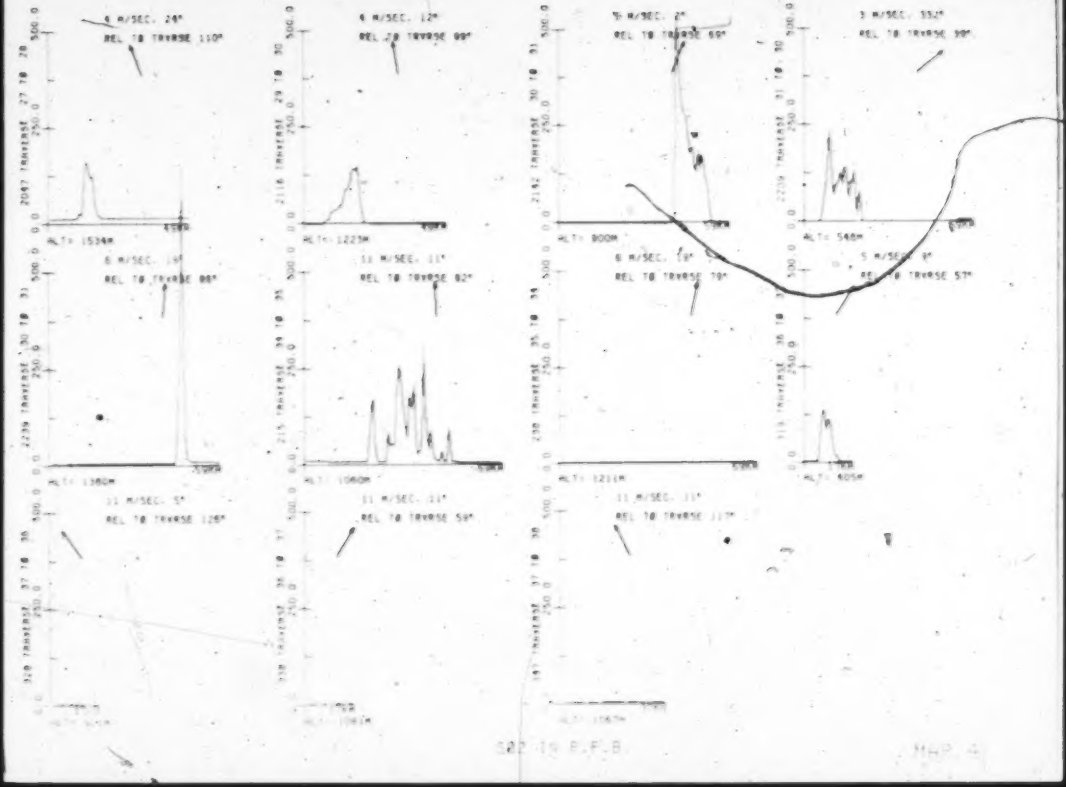
NSX IN P.P.B.

MAP 4



N82 IN P.P.B.

MAP 4



SEP-19 P.F.B. MAP 4

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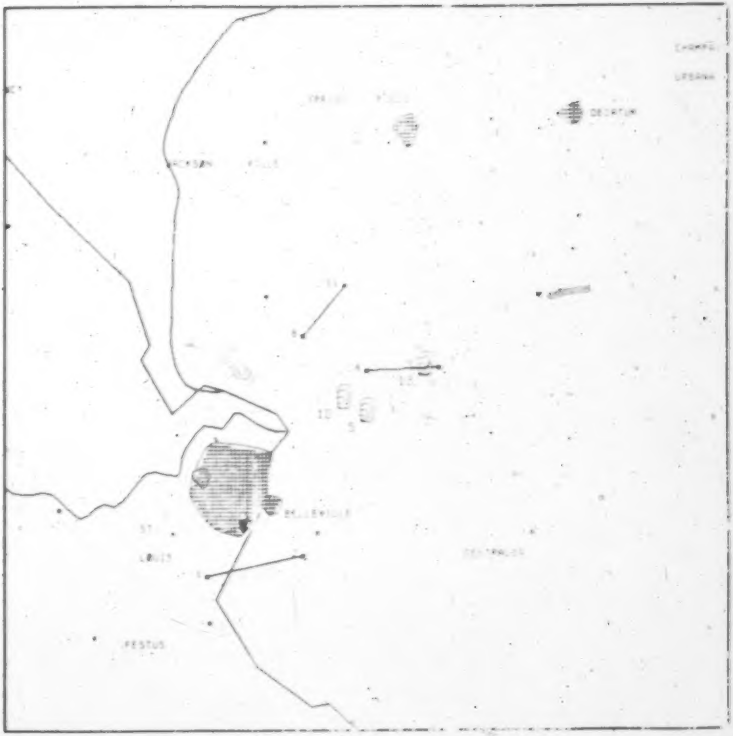
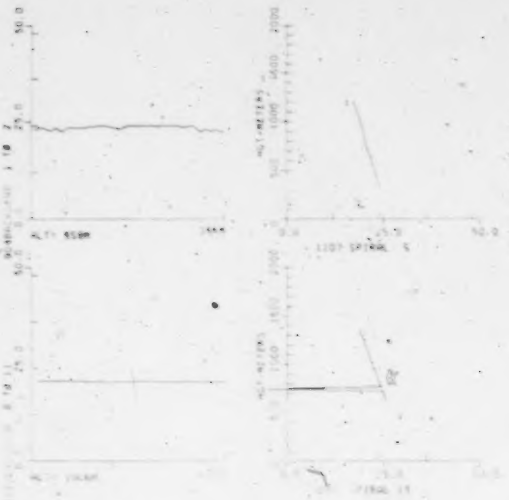
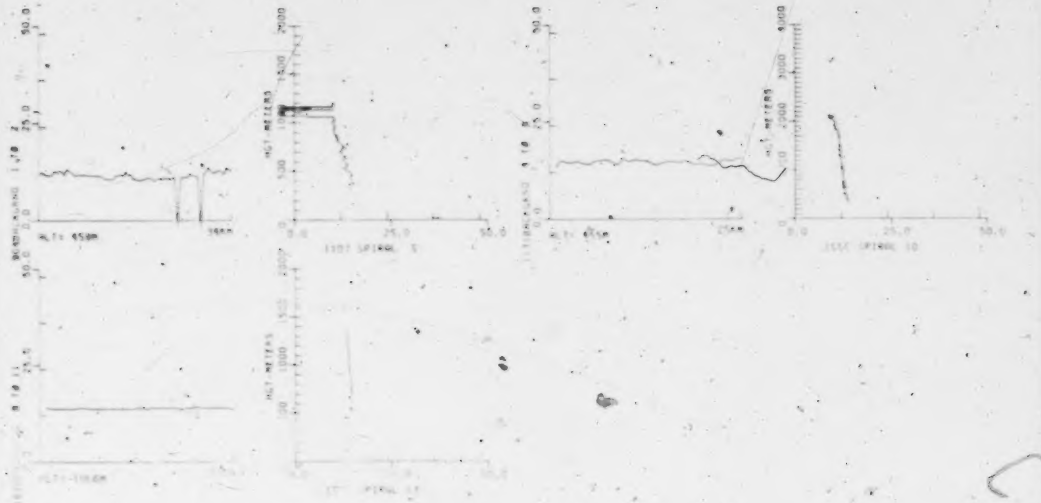
MAP 6





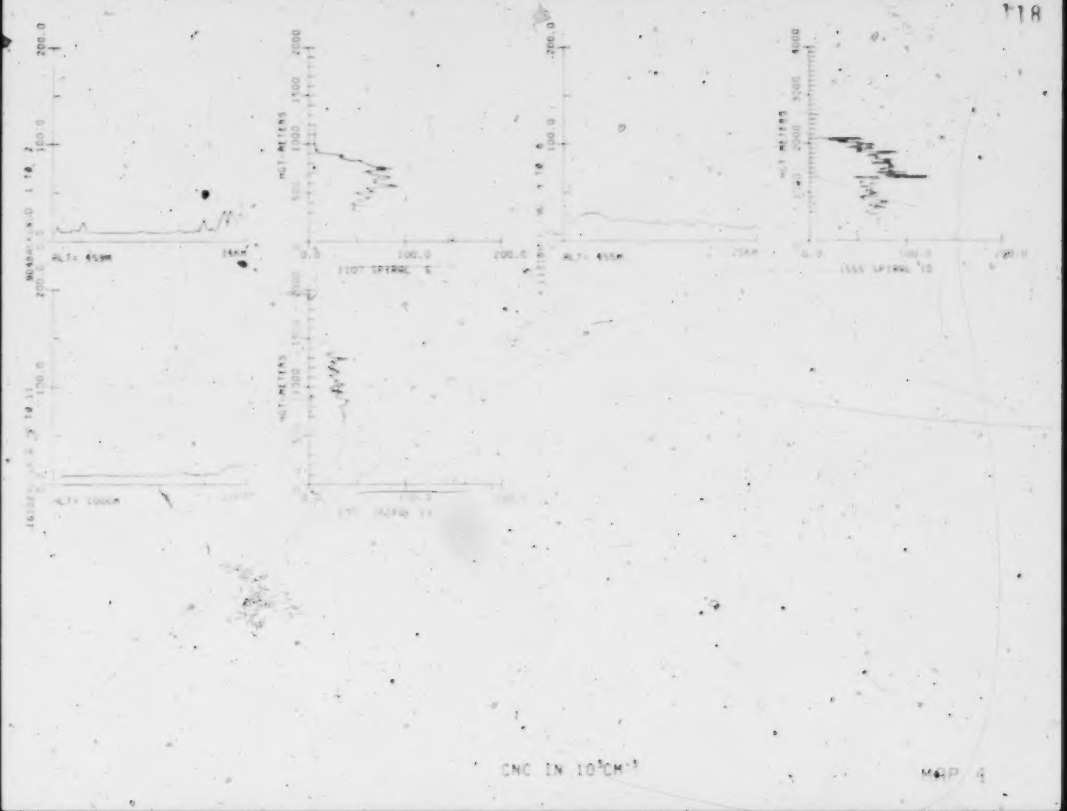
TEMP IN DEGREES C

MAP 4



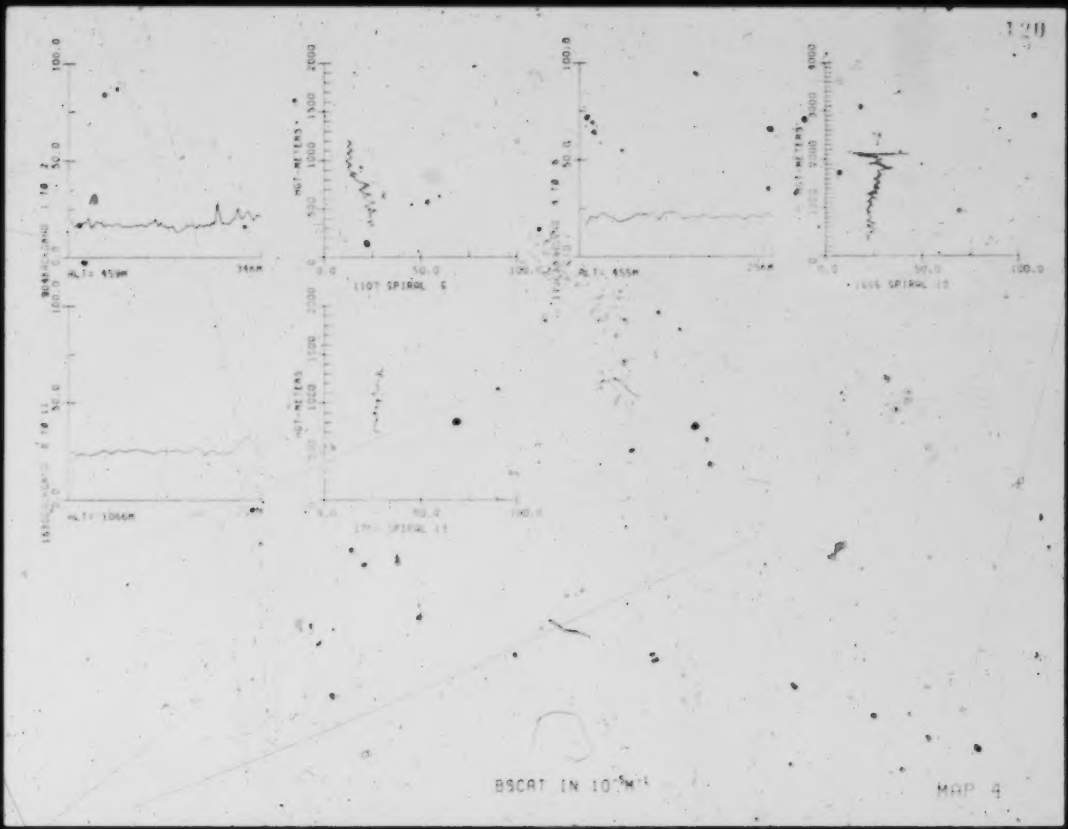
DEWPRINT IN DEGREES C

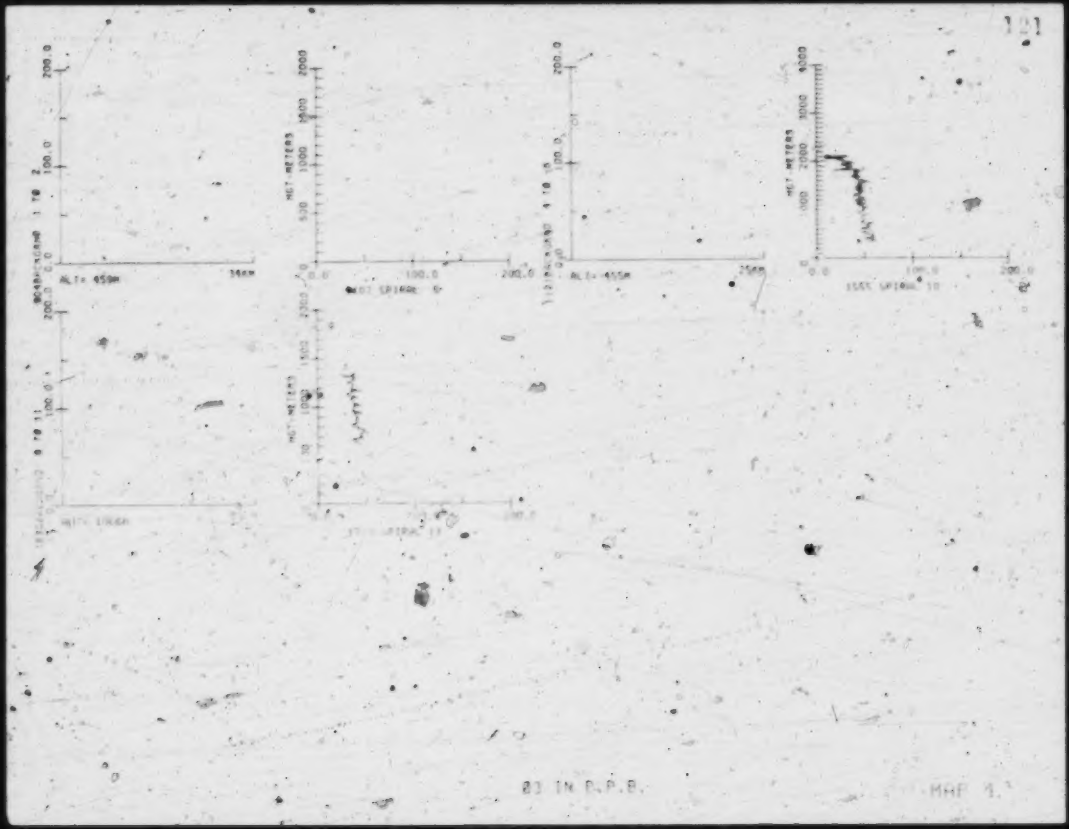
MAP 4

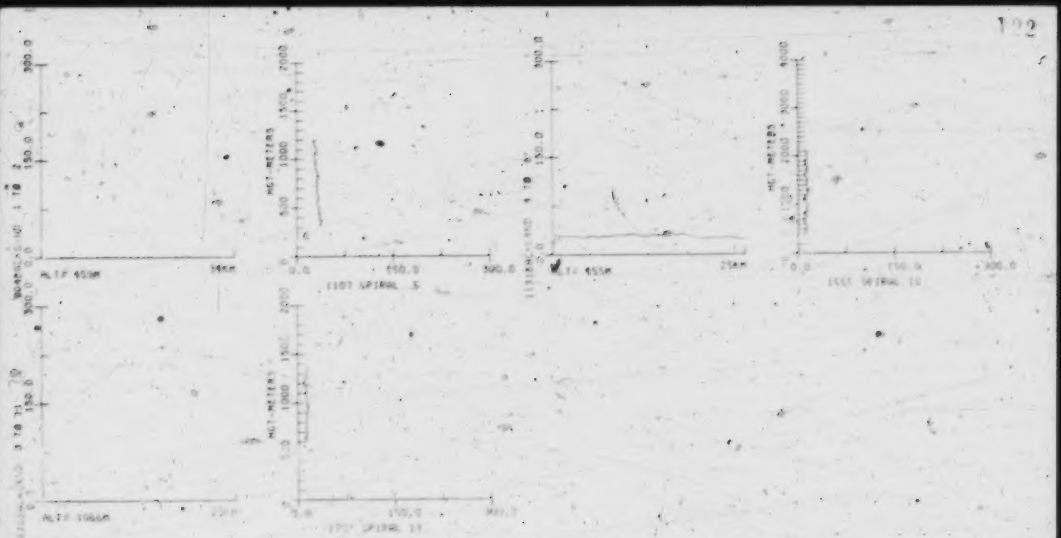

ALT= 410M
METERS
ALT= 410M
METERS
ALT= 100M
METERS
CNC IN $10^3 CM^{-3}$
MAP 4

CHARGE IN MILLIVOLTS

MAP 4

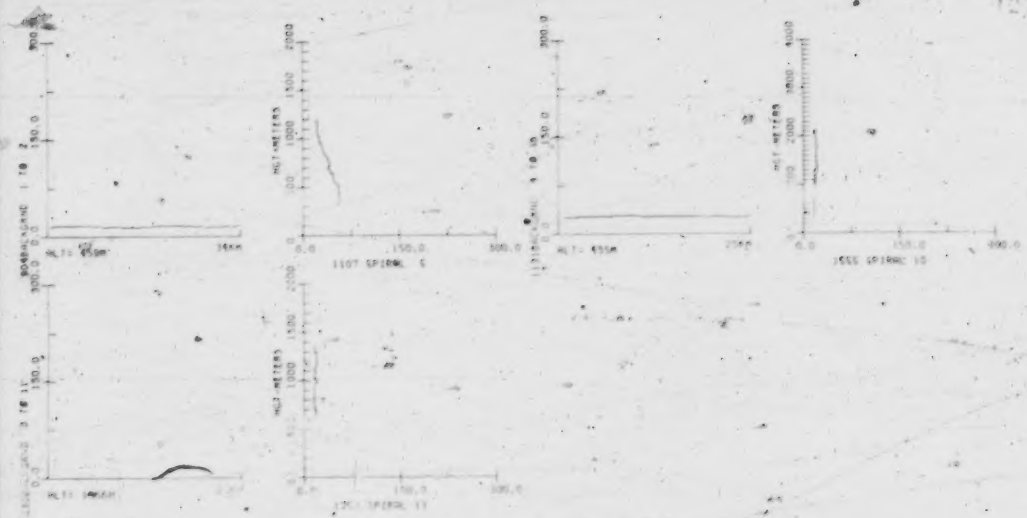

BSCAT IN 10
MAP 4





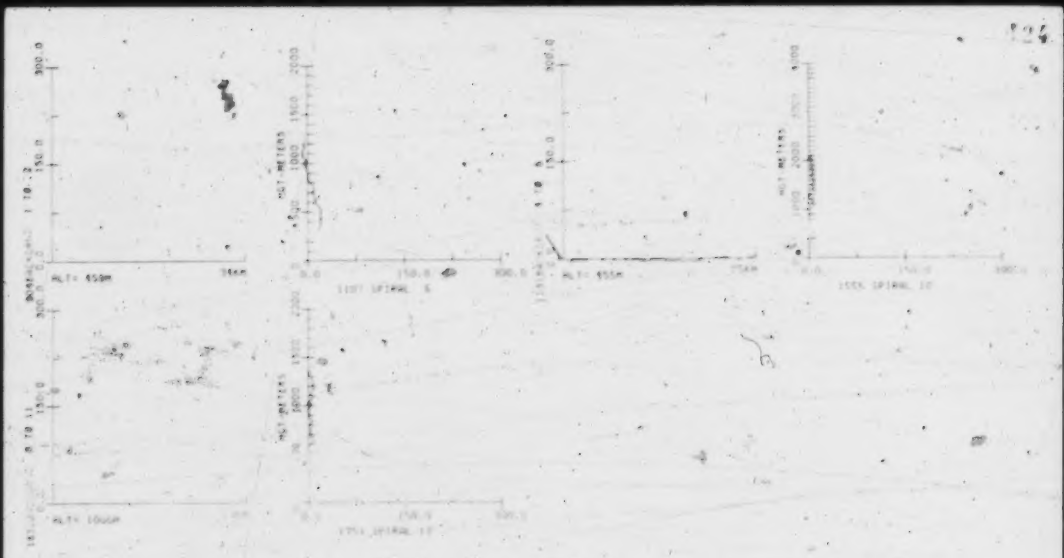
NØ IN P.P.B.

MAP 4



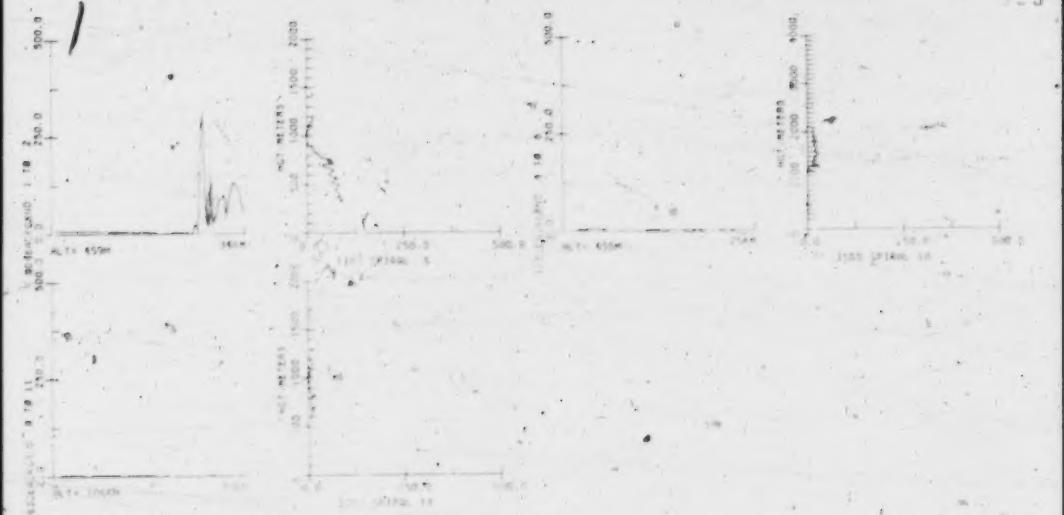
NOT IN P.P.B.

MAP 4



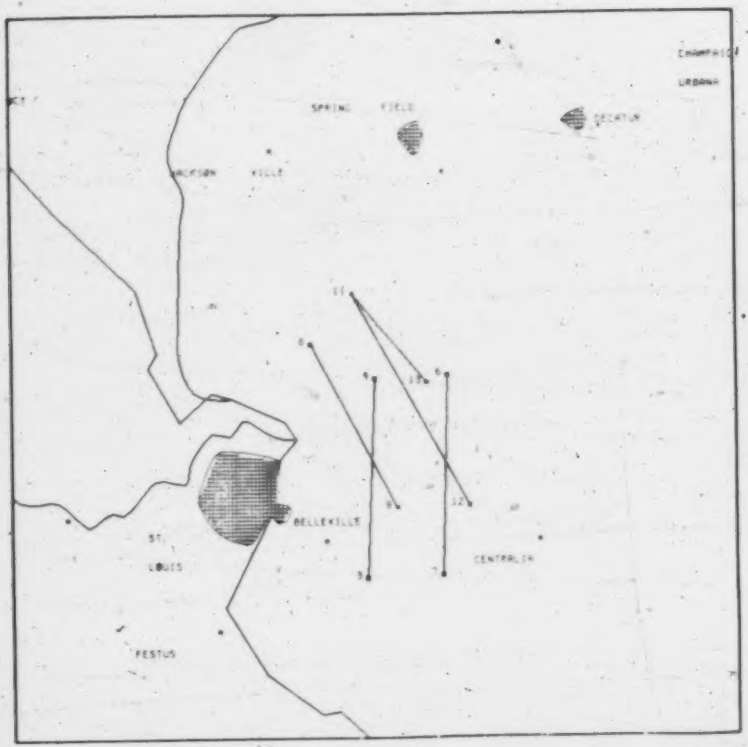
NOT IN P.P.B.

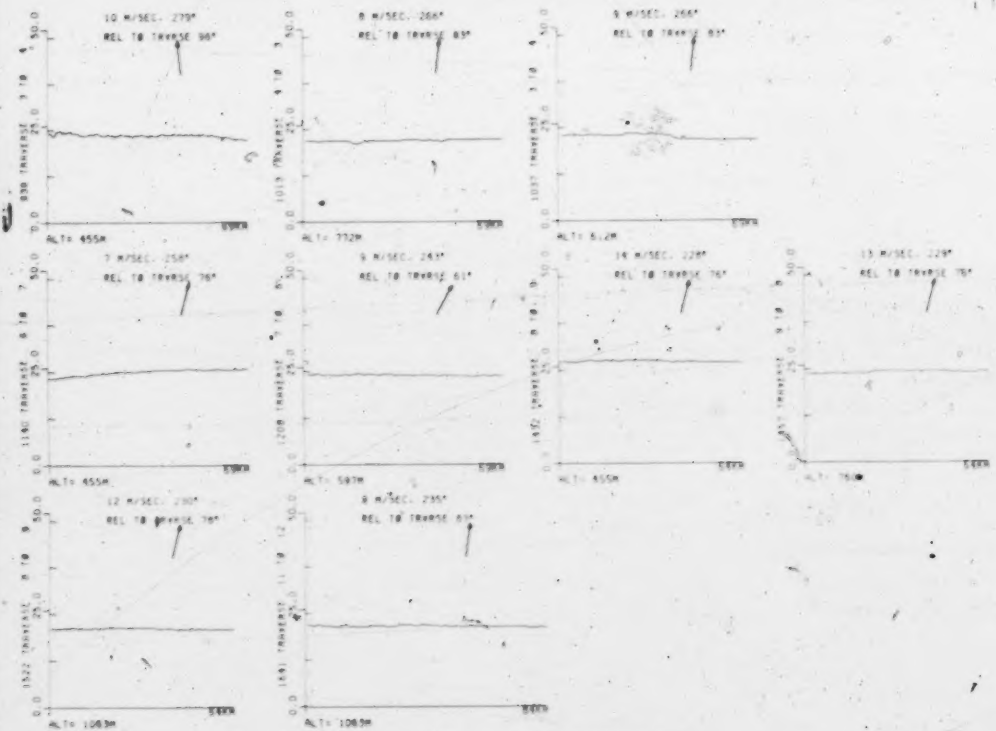
MAP 4

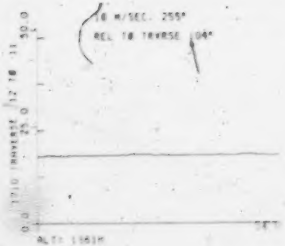


6097778

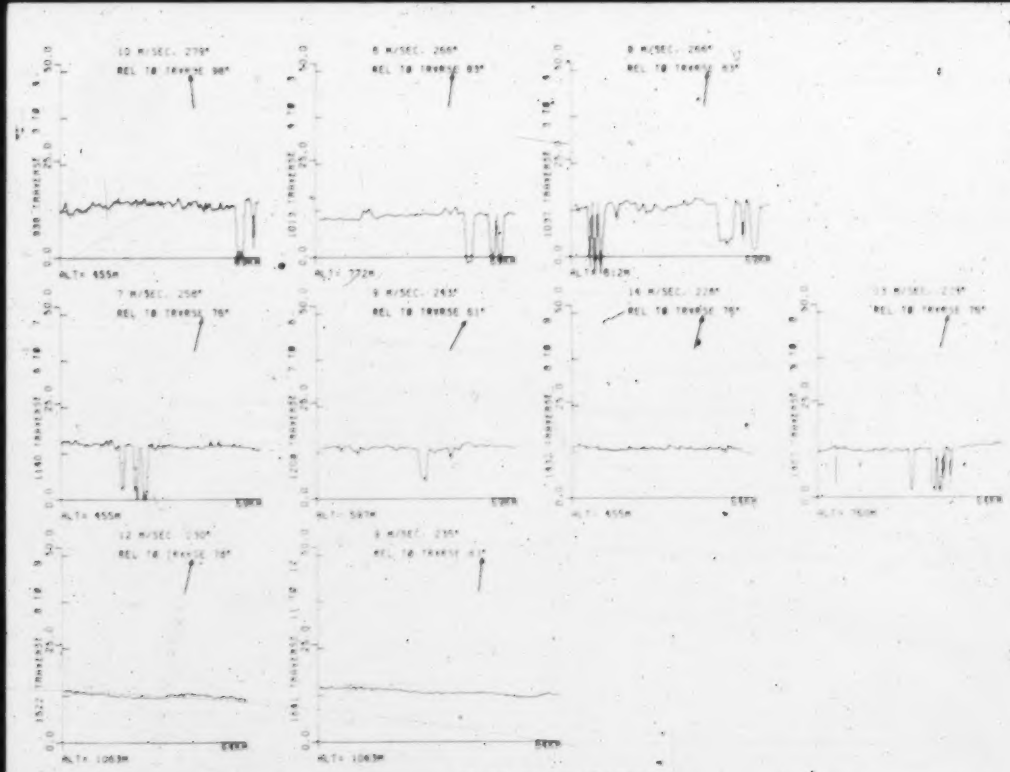
MAP 5

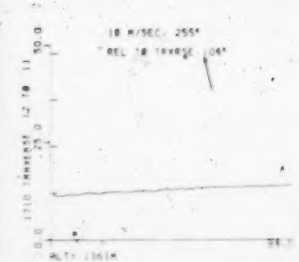


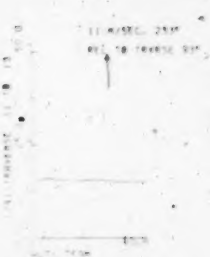

10 M/SEC. 270°
REL TO TRANSEC 90°
ALT= 455M
8 M/SEC. 266°
REL TO TRANSEC 85°
ALT= 772M
9 M/SEC. 266°
REL TO TRANSEC 85°
ALT= 6.2M
7 M/SEC. 258°
REL TO TRANSEC 76°
ALT= 455M
9 M/SEC. 263°
REL TO TRANSEC 81°
ALT= 597M
14 M/SEC. 229°
REL TO TRANSEC 76°
ALT= 455M
13 M/SEC. 229°
REL TO TRANSEC 76°
12 M/SEC. 230°
REL TO TRANSEC 76°
ALT= 1063M
9 M/SEC. 235°
REL TO TRANSEC 81°
ALT= 1063M
TEMP IN DEGREES C.



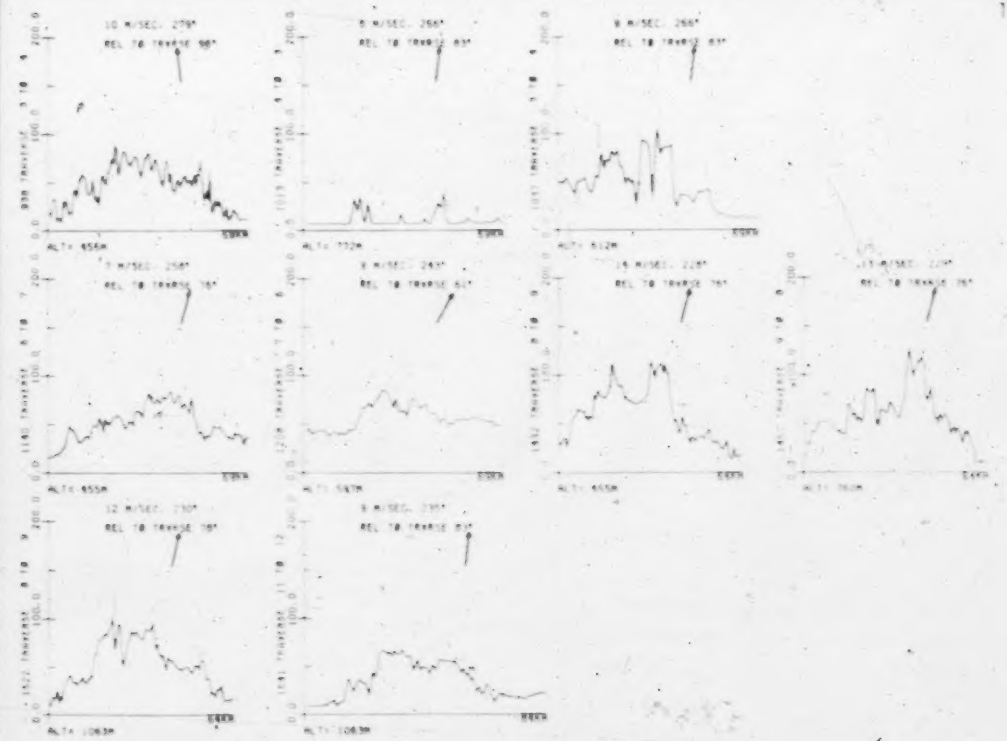
TEMP IN DEGREES C


DEWPOINT IN DEGREES C

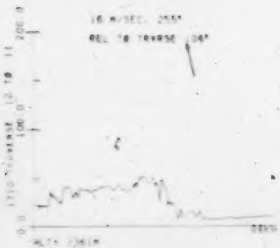




DEWPOINT IN DEGREES C

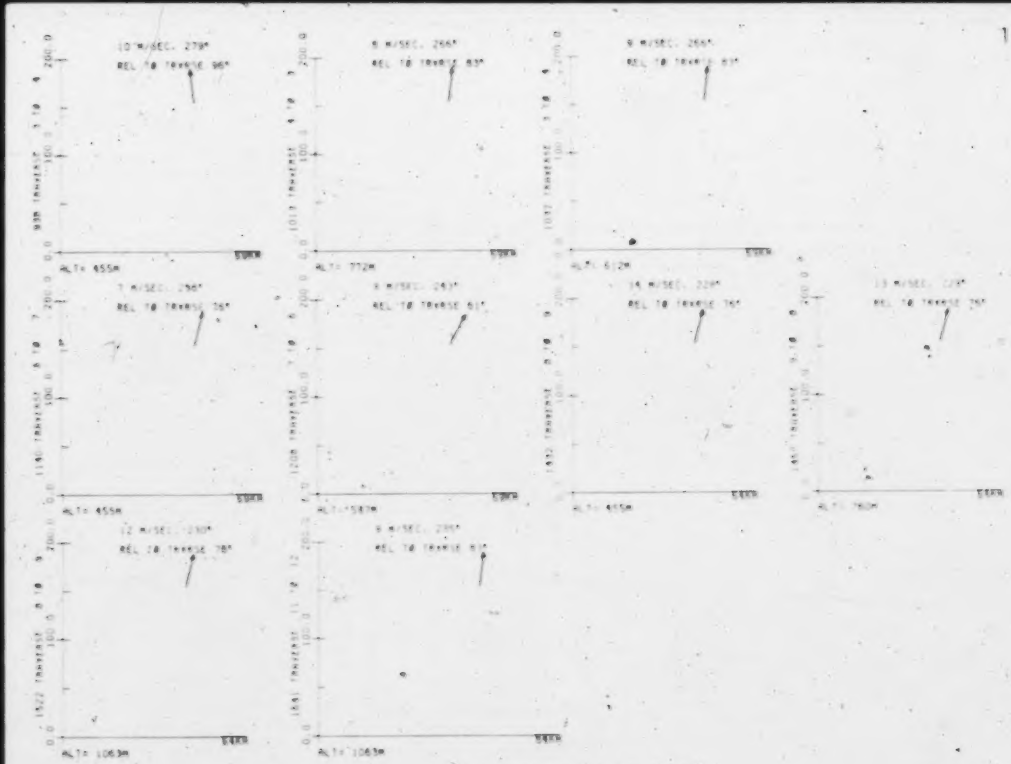


CNC IN 10⁷CM⁻³

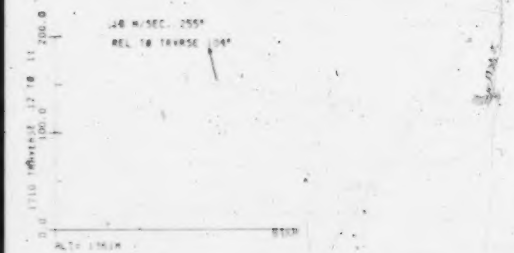


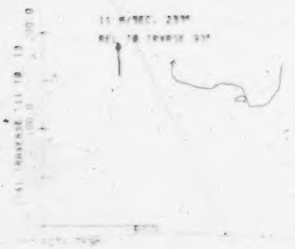
CNC IN 10TH

MAP


CHARGE IN MILLIVOLTS

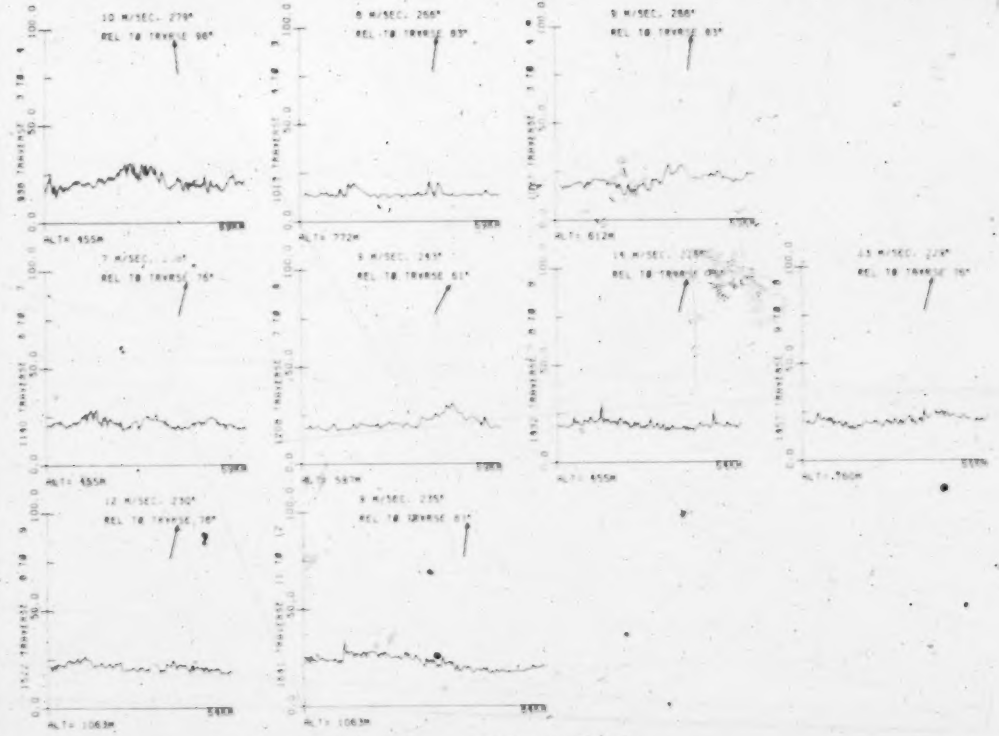
G 14

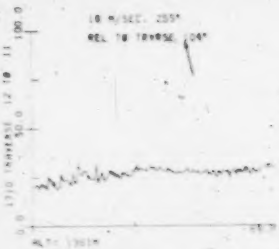




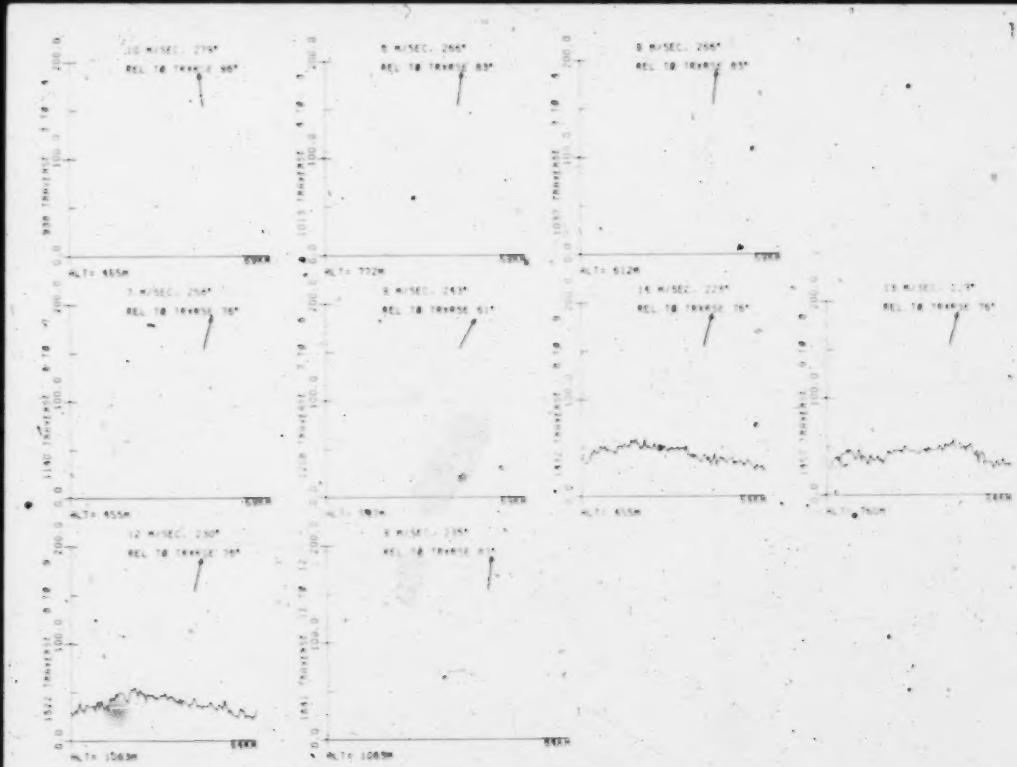
CHARGE IN MILLIVOLTS

MAP


10 M/SEC. 270°
REL TO TRANSECT 90°
ALT= 455M
8 M/SEC. 266°
REL TO TRANSECT 83°
ALT= 772M
9 M/SEC. 268°
REL TO TRANSECT 83°
ALT= 612M
7 M/SEC. 240°
REL TO TRANSECT 76°
ALT= 455M
8 M/SEC. 243°
REL TO TRANSECT 61°
ALT= 587M
14 M/SEC. 228°
REL TO TRANSECT 76°
ALT= 455M
15 M/SEC. 227°
REL TO TRANSECT 76°
12 M/SEC. 230°
REL TO TRANSECT 76°
ALT= 1063M
9 M/SEC. 235°
REL TO TRANSECT 61°
ALT= 1063M
BSCAT IN $10^{-6}M^{-1}$

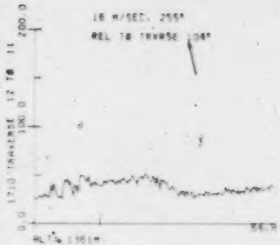

10 M/SEC. 205°
REL TO TRANSE 104°

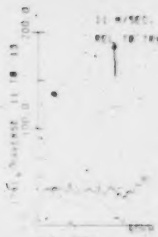
11 M/SEC. 233°
REL TO TRANSE 97°



23 IN P.P.B.

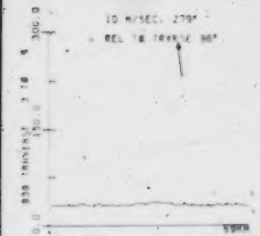
MAP 5.

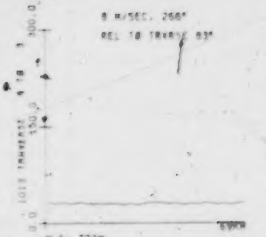

18 M/SEC. 255°
REL TO TRANSE 104°
1710 TRANSEC 12 TO 11
2000.0
1000.0
0.0

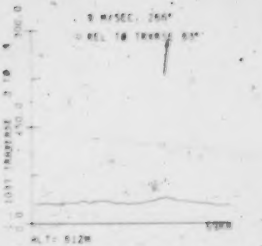

11 M/SEC. 255°
REL TO TRANSE 33°
2000.0
1000.0

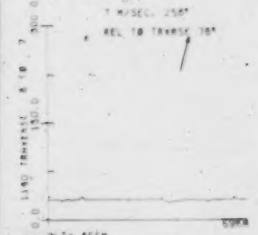
23 IN P.P.B.

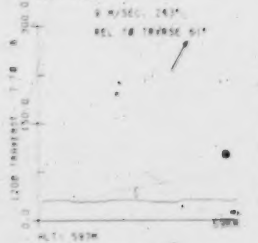
MAP

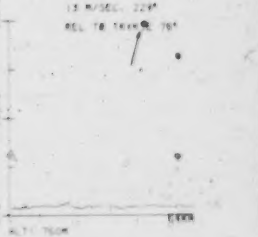


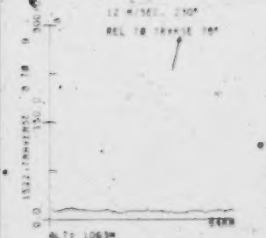


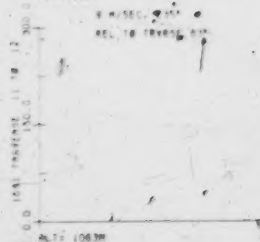






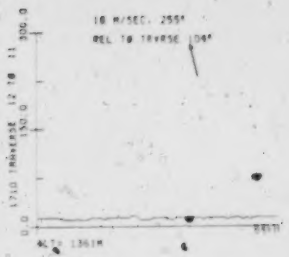






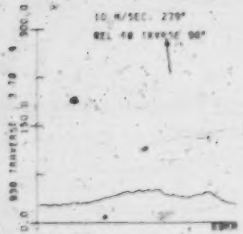
NØ IN P.P.B.

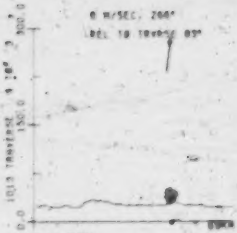
MHP 5

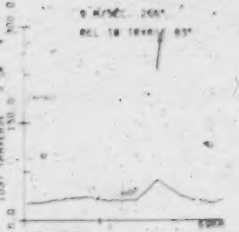

16 M/SEC. 255°
REL TO TRVRSE 104°
1710 TRAVERSE 12 TO 11
300.0
150.0
0.0

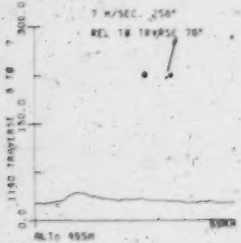
11 M/SEC. 259°
REL TO TRVRSE 93°
1710 TRAVERSE 11 TO 10
300.0
150.0

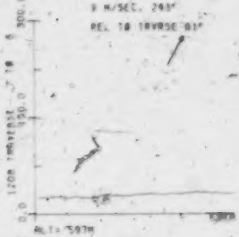
* NØ IN P.P.B.

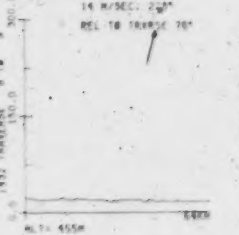


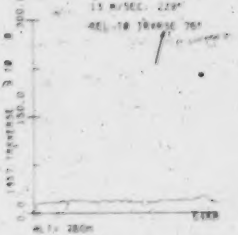


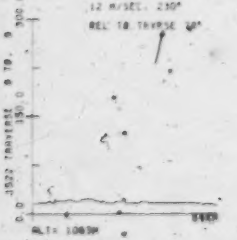


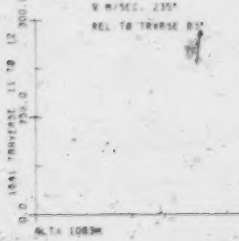










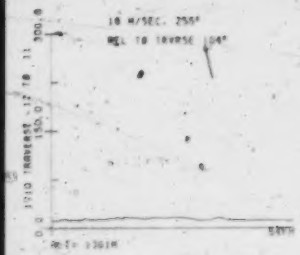


NØX IN P.P.B.

MAP 5

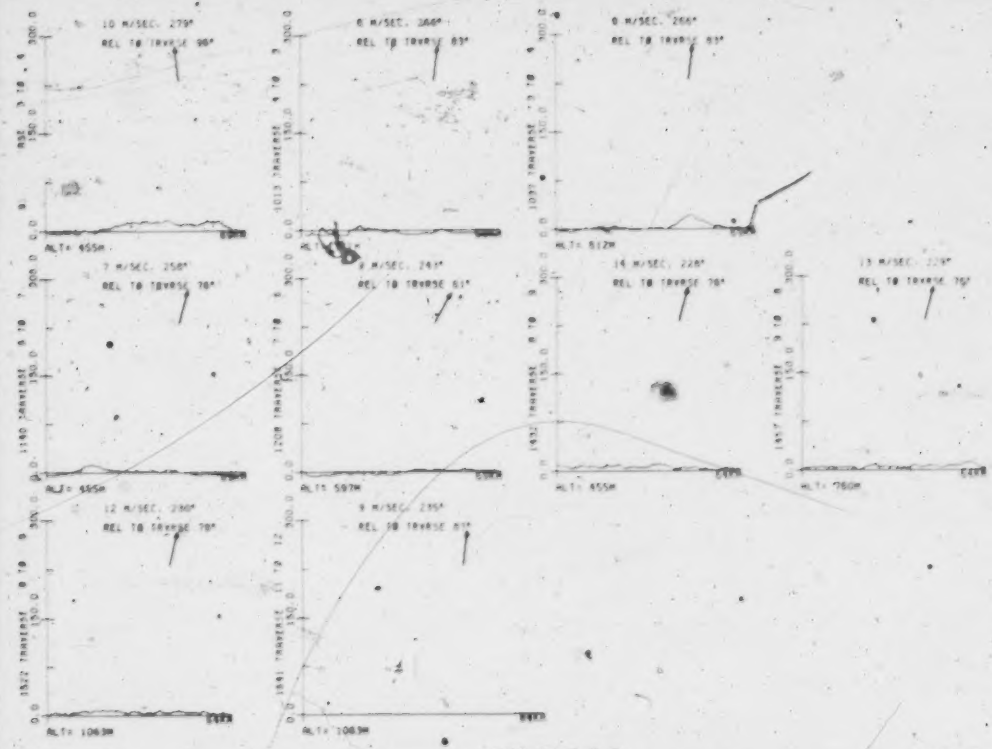
A02

142



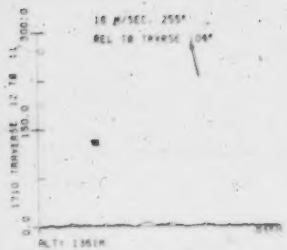
NOX IN P.P.B.

MAP

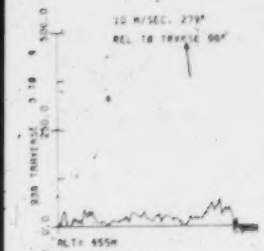


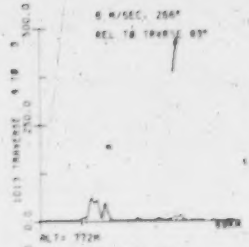
N02 IN P.P.B.

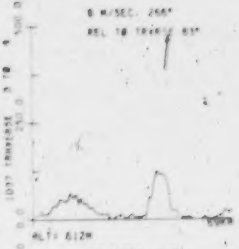
MAR 5

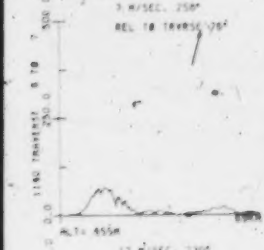

10 M/SEC. 255°
REL TO TRANSV. 04°
ALT: 1361M

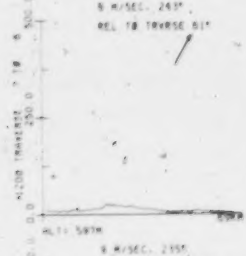
11 M/SEC. 288°
REL TO TRANSV. 93°

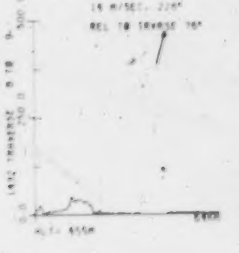


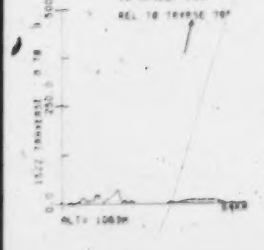


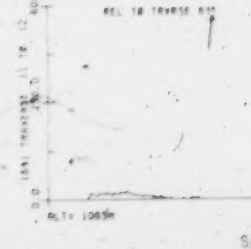






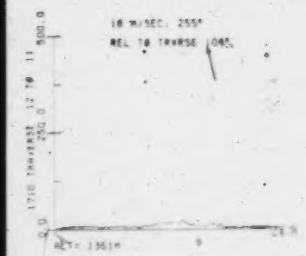






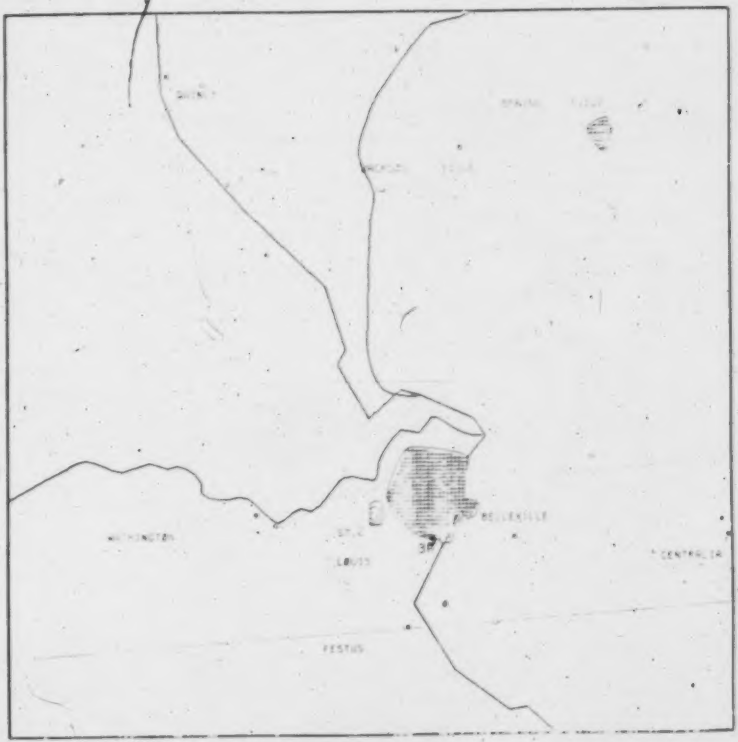
S02 IN P.P.B.

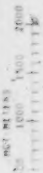
MAP 5

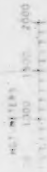

18 M/SEC. 255°
REL TO TRANSE 045
1710 TRANSEC 12 TO 11
500.0
250.0
0.0
REF: 1361M
0
2E N

11 M/SEC. 255°
REL TO TRANSE 03
500.0
250.0
0.0

61371476







TEMP IN DEGREES C

MAP 5

HGT-METERS
500 1000 1500 2000

HGT-METERS
500 1000 1500 2000

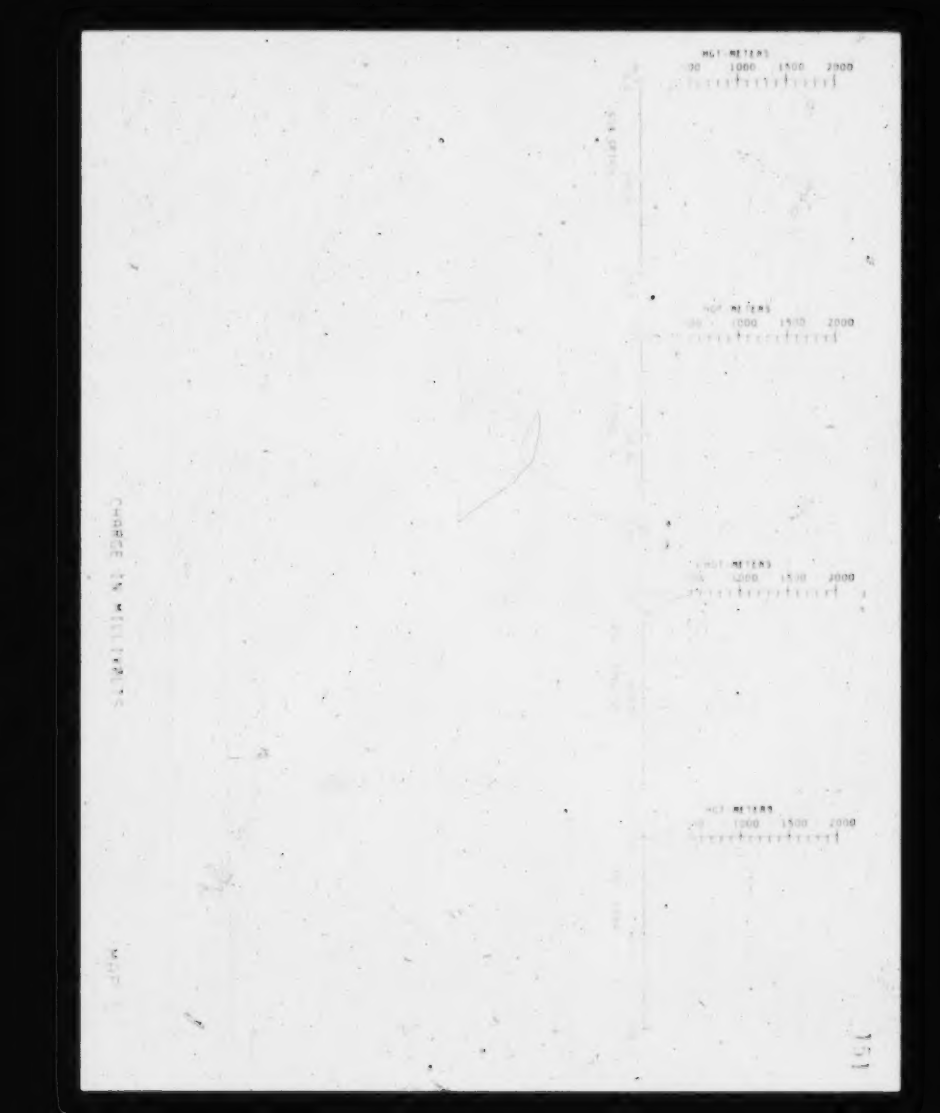
HGT-METERS
500 1000 1500 2000

HGT-METERS
500 1000 1500 2000

DEWPOINT IN DEGREES C

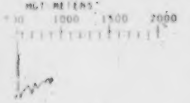
ENC IN 10^{5}CM^{2}

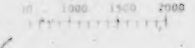
MAP 5

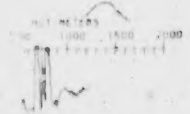

HGT METERS
500 1000 1500 2000
HGT METERS
500 1000 1500 2000
HGT METERS
500 1000 1500 2000
HGT METERS
500 1000 1500 2000

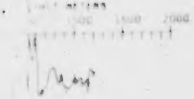
BSCAT IN 10^{-5} M^{-1}

MAP 5


METERS
1000
1500
2000

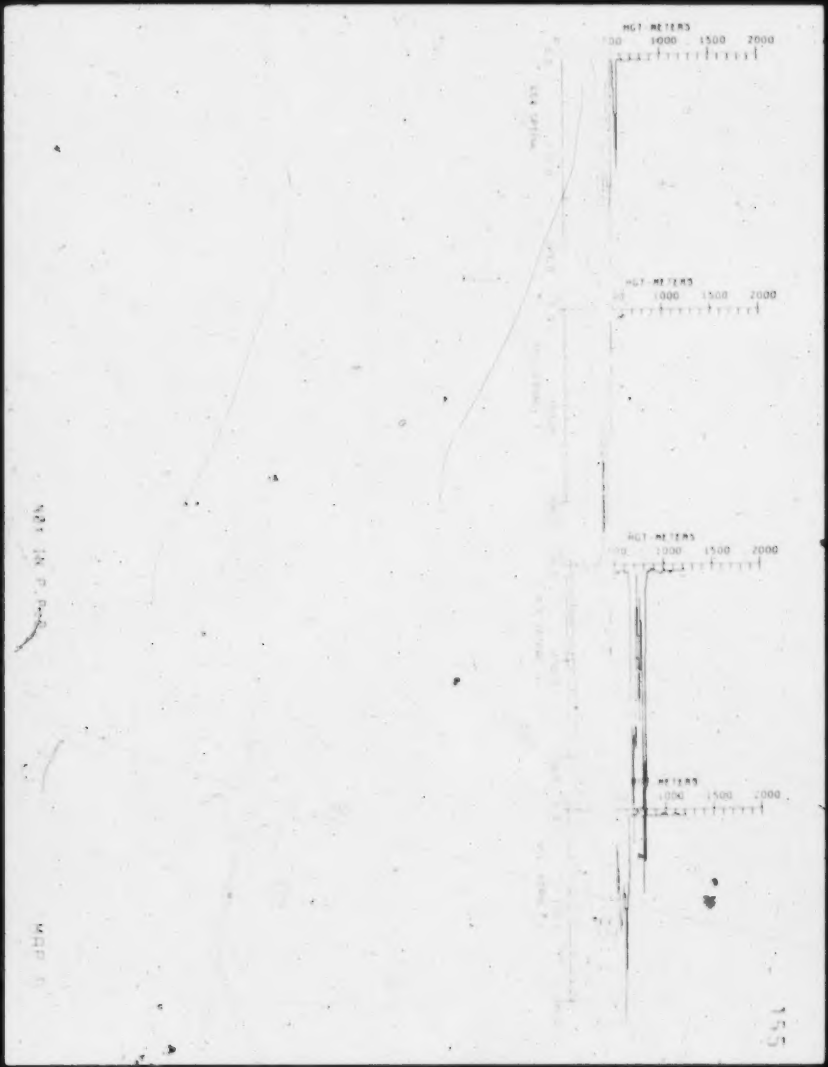

METERS
1000
1500
2000

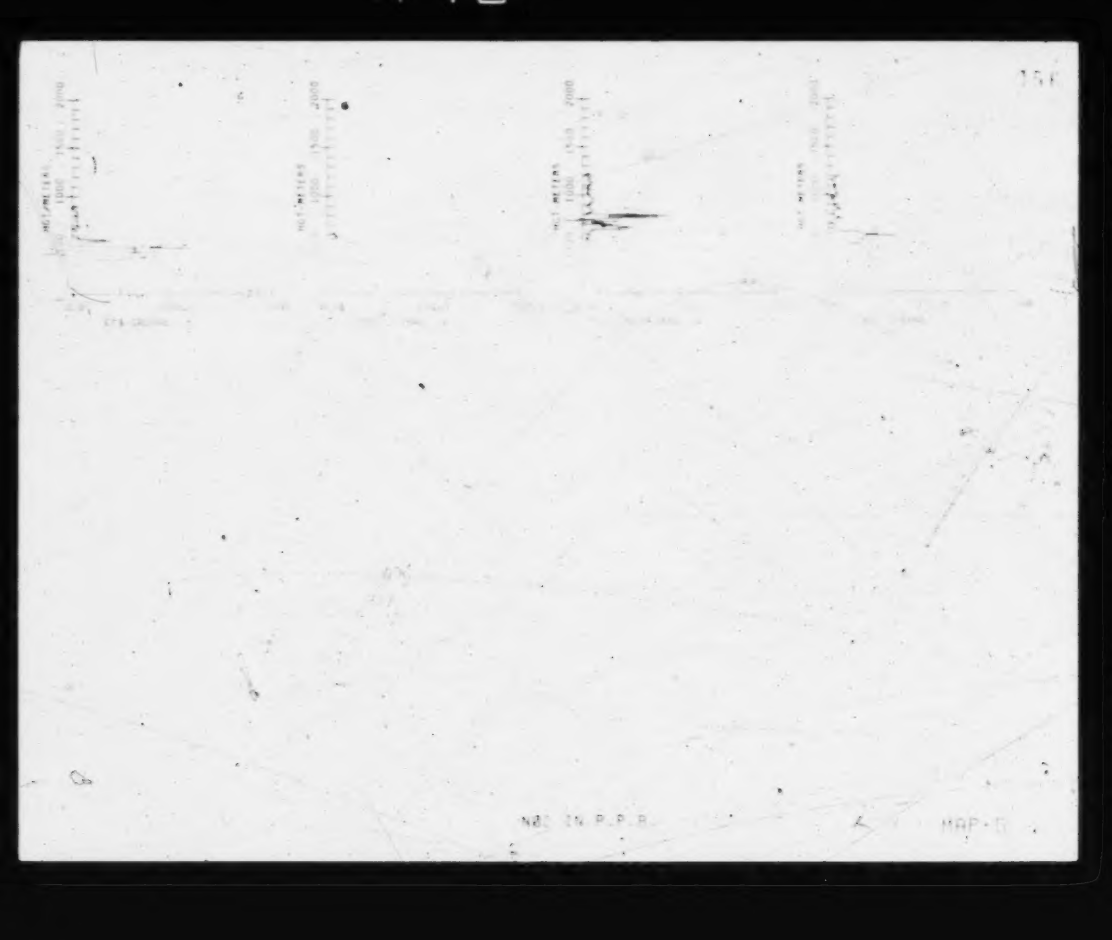

METERS
1000
1500
2000

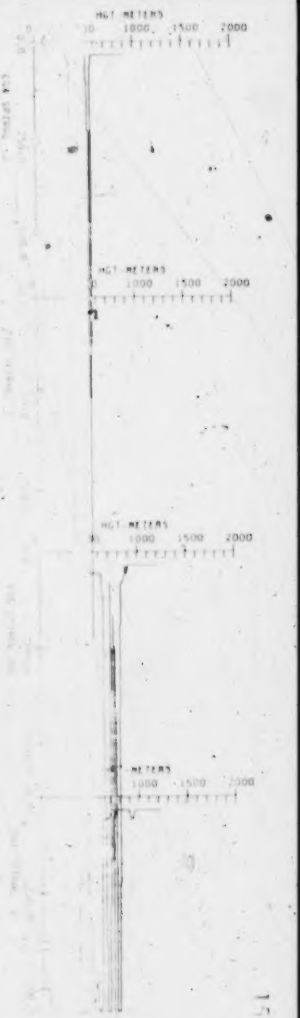

METERS
1000
1500
2000

NO IN F.P.B

MAP 5

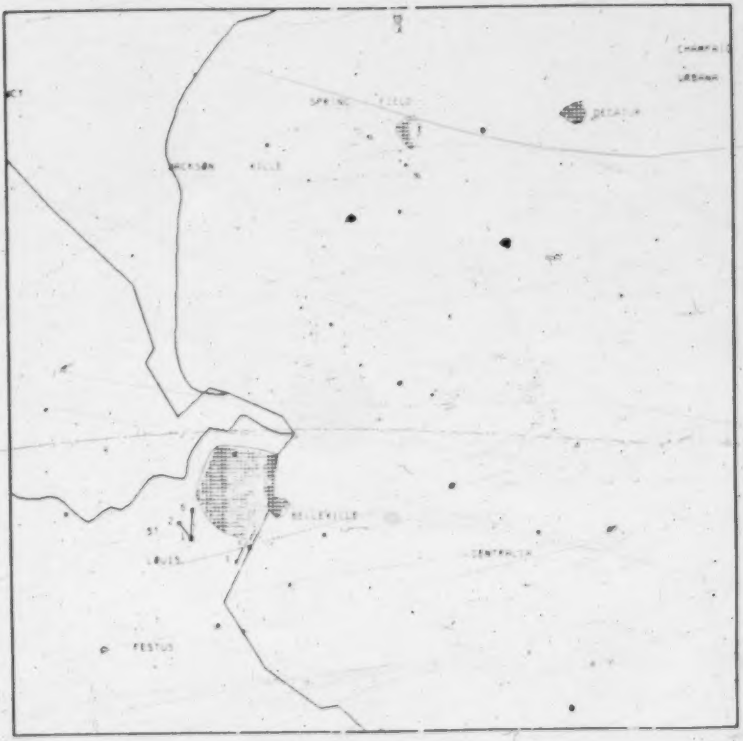

HGT METERS
1000
1500
2000
HGT METERS
1000
1500
2000
HGT METERS
1000
1500
2000
METERS
1000
1500
2000



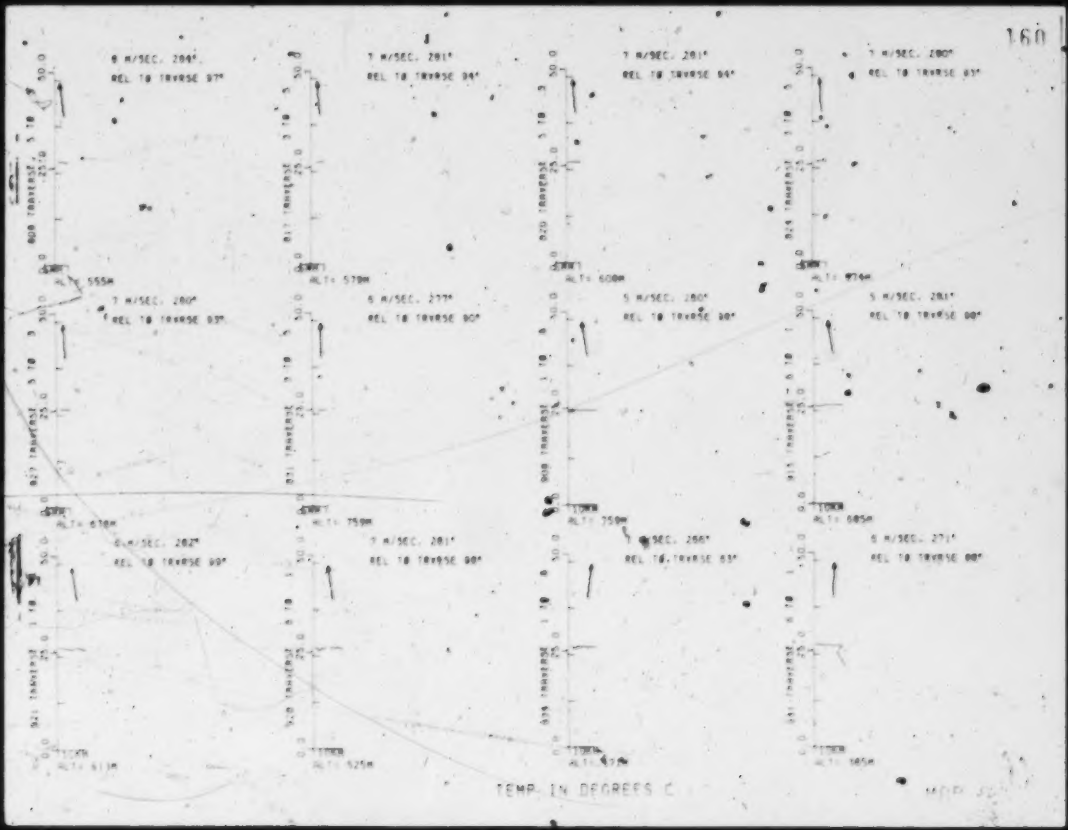

MGT METERS
0 1000 1500 2000
MGT METERS
0 1000 1500 2000
MGT METERS
0 1000 1500 2000
METERS
1000 1500 2000

61371475

MAP 6

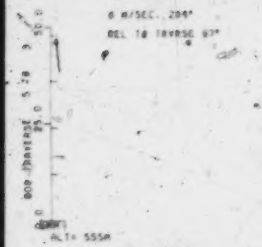


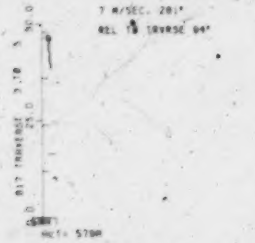
8 M/SEC. 277°
REL TO TRANSE 133°
ALT: 455M
8 M/SEC. 277°
REL TO TRANSE 133°
ALT: 605M
8 M/SEC. 274°
REL TO TRANSE 130°
ALT: 429M
8 M/SEC. 274°
REL TO TRANSE 130°
ALT: 594M
8 M/SEC. 274°
REL TO TRANSE 130°
ALT: 371M
8 M/SEC. 272°
REL TO TRANSE 65°
ALT: 514M
8 M/SEC. 272°
REL TO TRANSE 64°
ALT: 453M
8 M/SEC. 271°
REL TO TRANSE 64°
ALT: 630M
8 M/SEC. 271°
REL TO TRANSE 64°
ALT: 190M
8 M/SEC. 271°
REL TO TRANSE 64°
ALT: 374M
8 M/SEC. 264°
REL TO TRANSE 76°
ALT: 491M
8 M/SEC. 264°
REL TO TRANSE 87°
ALT: 512M
TEMP IN DEGREES C
MAP 1

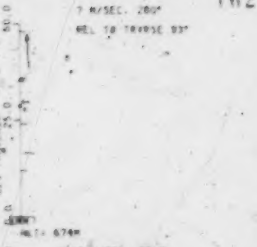

6 M/SEC. 284°
REL TO TRVRSE 97°
ALT= 555M
7 M/SEC. 281°
REL TO TRVRSE 94°
ALT= 579M
7 M/SEC. 281°
REL TO TRVRSE 94°
ALT= 600M
7 M/SEC. 280°
REL TO TRVRSE 93°
ALT= 976M
7 M/SEC. 280°
REL TO TRVRSE 93°
ALT= 670M
5 M/SEC. 277°
REL TO TRVRSE 90°
ALT= 759M
5 M/SEC. 280°
REL TO TRVRSE 93°
ALT= 759M
5 M/SEC. 281°
REL TO TRVRSE 90°
ALT= 885M
5 M/SEC. 282°
REL TO TRVRSE 90°
7 M/SEC. 281°
REL TO TRVRSE 90°
SEC. 280°
REL TO TRVRSE 93°
5 M/SEC. 271°
REL TO TRVRSE 80°
TEMP. IN DEGREES C

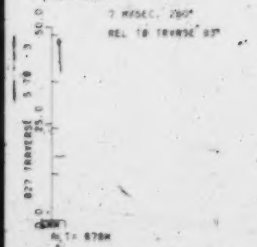
TEMP IN DEGREES C

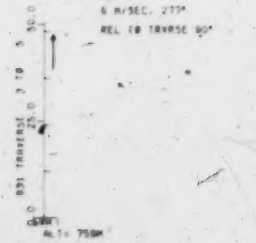
MAP 5

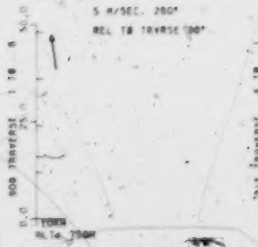


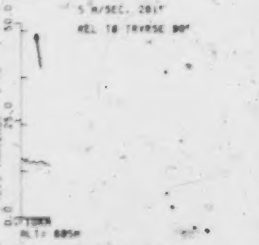


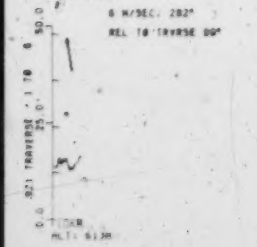


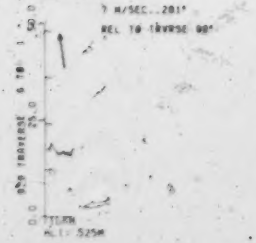


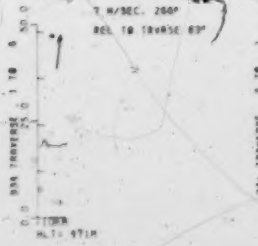




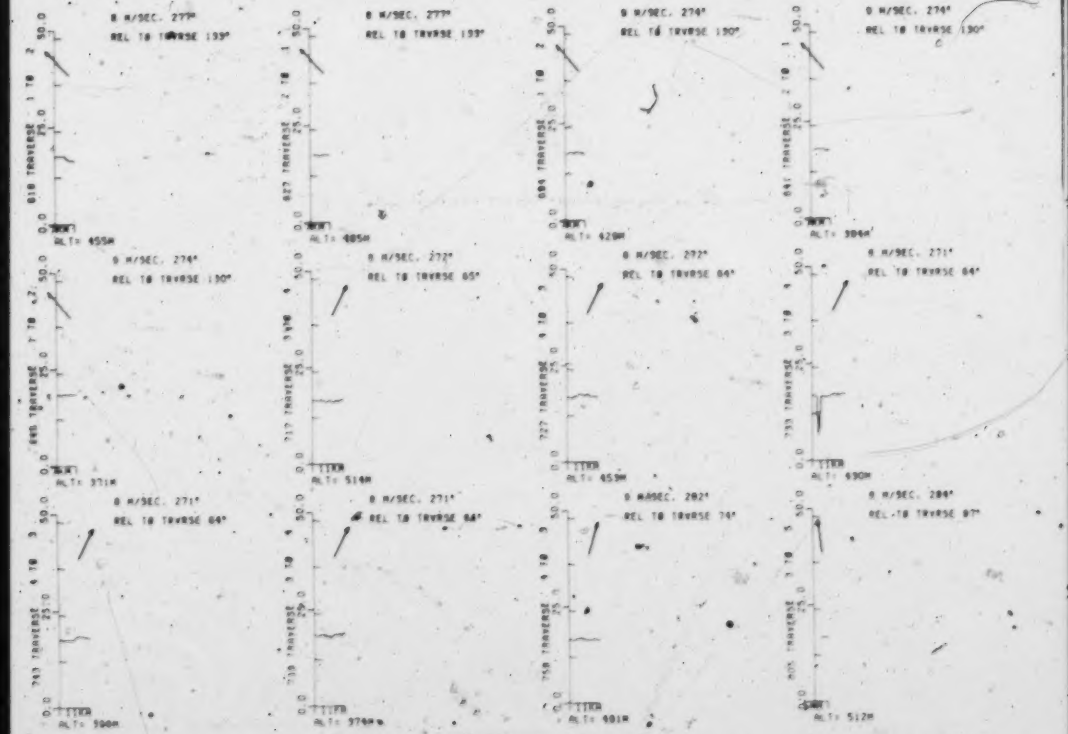








DEWPOINT IN DEGREES C

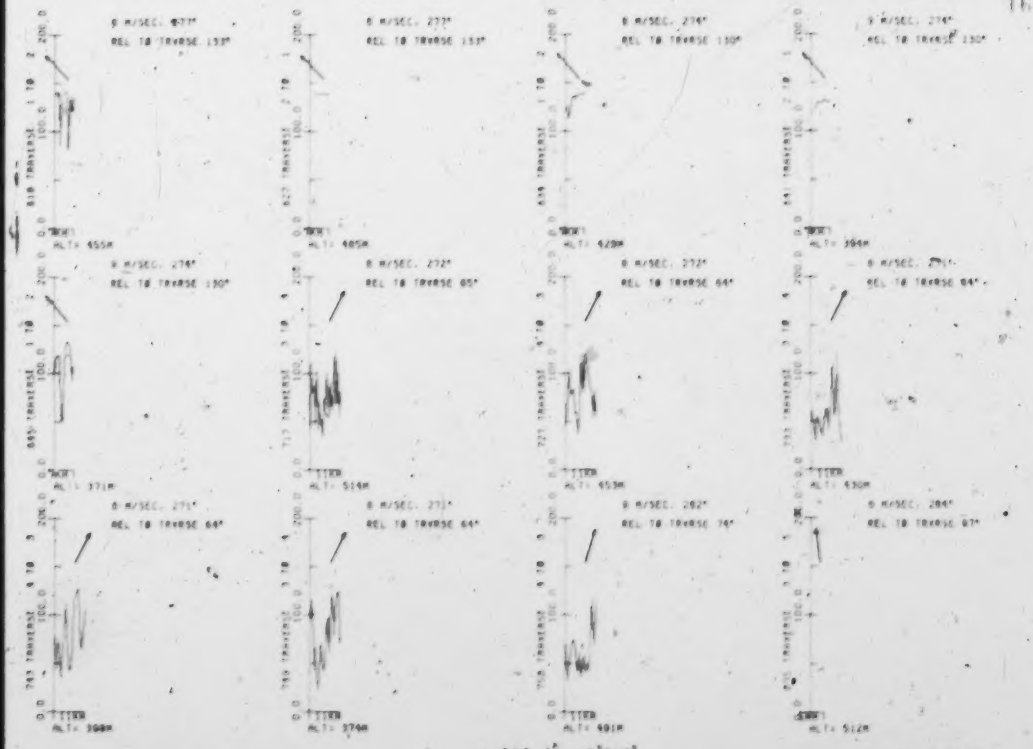


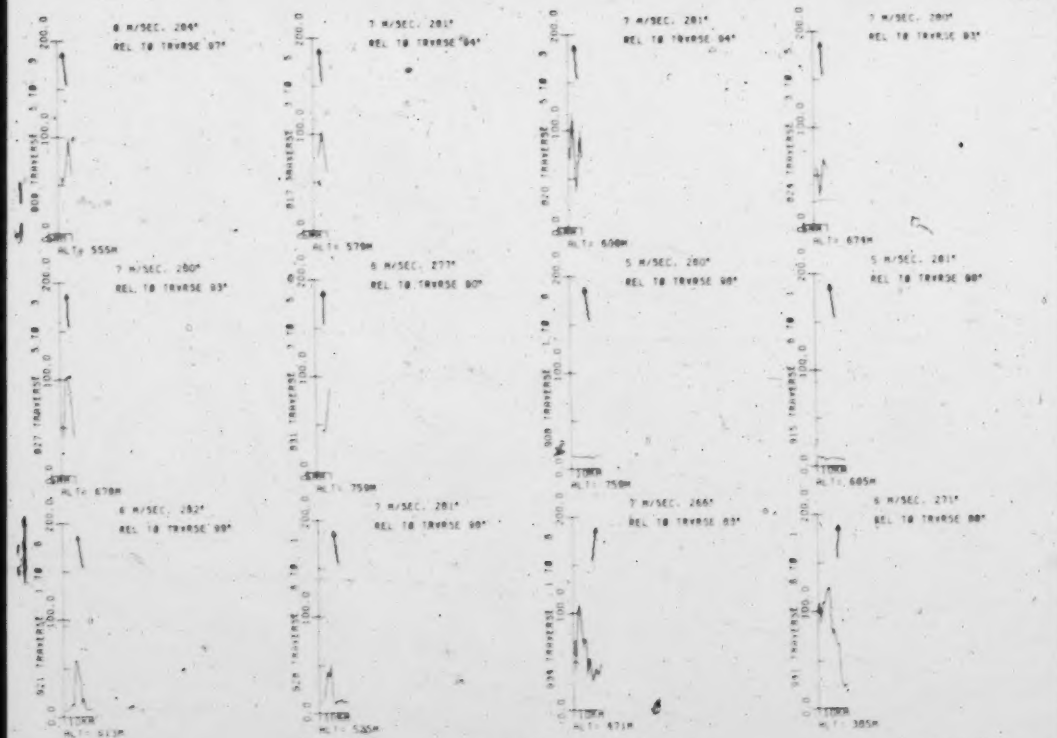
DEWPOINT IN DEGREES C

MAP 6

DEWPOINT IN DEGREES C

MAP 5

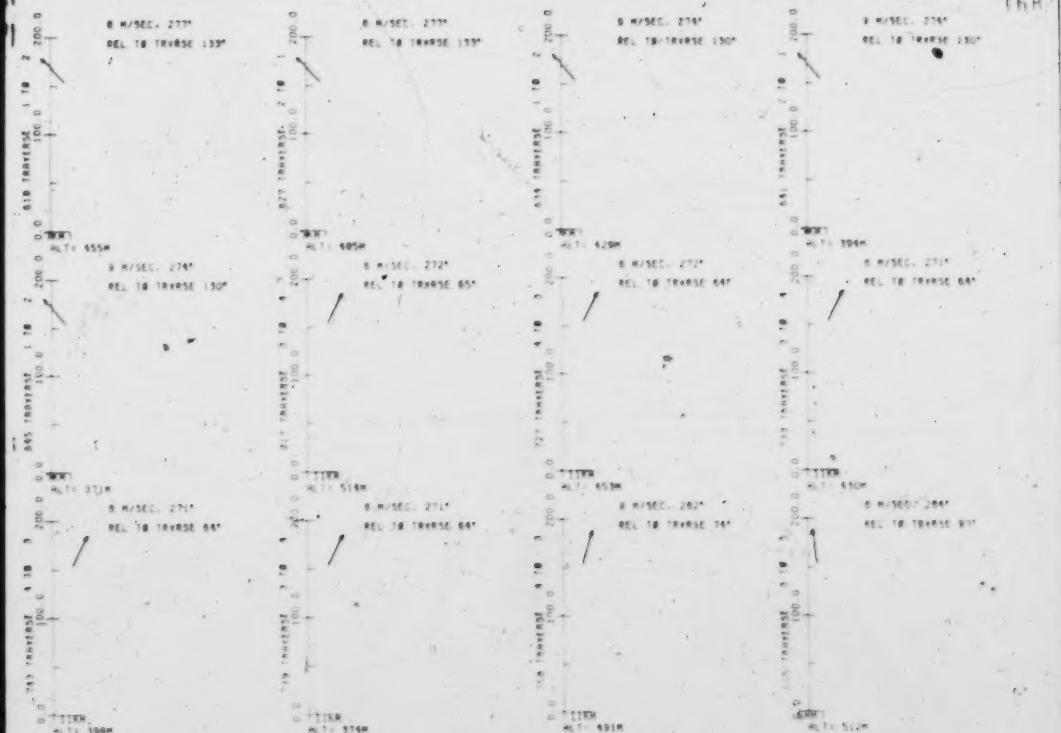

9 M/SEC. 277°
REL TO TRANSEC 153°
ALT: 455M
9 M/SEC. 277°
REL TO TRANSEC 153°
ALT: 485M
9 M/SEC. 279°
REL TO TRANSEC 130°
ALT: 429M
9 M/SEC. 279°
REL TO TRANSEC 130°
ALT: 394M
9 M/SEC. 274°
REL TO TRANSEC 130°
ALT: 371M
9 M/SEC. 272°
REL TO TRANSEC 65°
ALT: 514M
9 M/SEC. 272°
REL TO TRANSEC 64°
ALT: 453M
9 M/SEC. 271°
REL TO TRANSEC 64°
ALT: 430M
9 M/SEC. 271°
REL TO TRANSEC 64°
ALT: 368M
9 M/SEC. 271°
REL TO TRANSEC 64°
ALT: 374M
9 M/SEC. 282°
REL TO TRANSEC 74°
ALT: 401M
9 M/SEC. 284°
REL TO TRANSEC 87°
ALT: 512M
CNC IN $10^3 CM^{-3}$
MAP 5



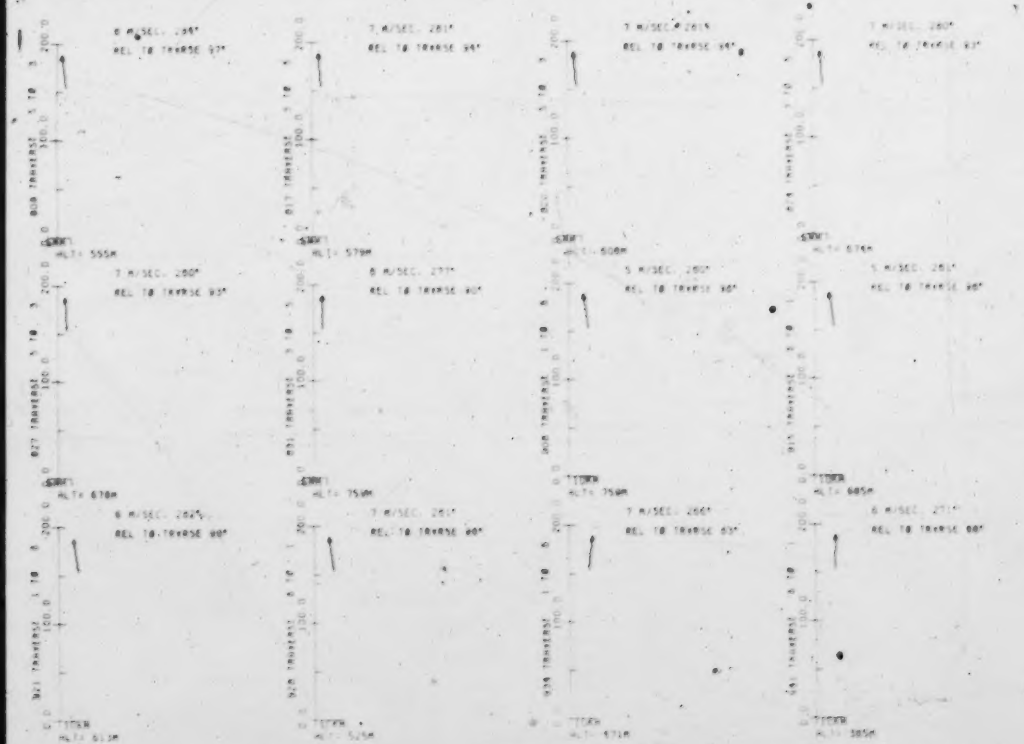
CNC IN $10^3 CM^{-3}$

MSP F

CNC IN $10^5 CM^{-3}$
MAP 6


0 M/SEC. 277°
REL TO TRVRSE 133°
ALT= 455M
0 M/SEC. 277°
REL TO TRVRSE 133°
ALT= 485M
0 M/SEC. 274°
REL TO TRVRSE 130°
ALT= 429M
0 M/SEC. 274°
REL TO TRVRSE 130°
ALT= 394M
0 M/SEC. 274°
REL TO TRVRSE 130°
ALT= 371M
0 M/SEC. 272°
REL TO TRVRSE 65°
ALT= 514M
0 M/SEC. 272°
REL TO TRVRSE 64°
ALT= 453M
0 M/SEC. 271°
REL TO TRVRSE 64°
ALT= 450M
0 M/SEC. 271°
REL TO TRVRSE 64°
ALT= 398M
0 M/SEC. 271°
REL TO TRVRSE 64°
ALT= 374M
0 M/SEC. 282°
REL TO TRVRSE 74°
ALT= 491M
0 M/SEC. 284°
REL TO TRVRSE 87°
ALT= 512M
CHARGE IN MILLIVOLTS

MAP 8

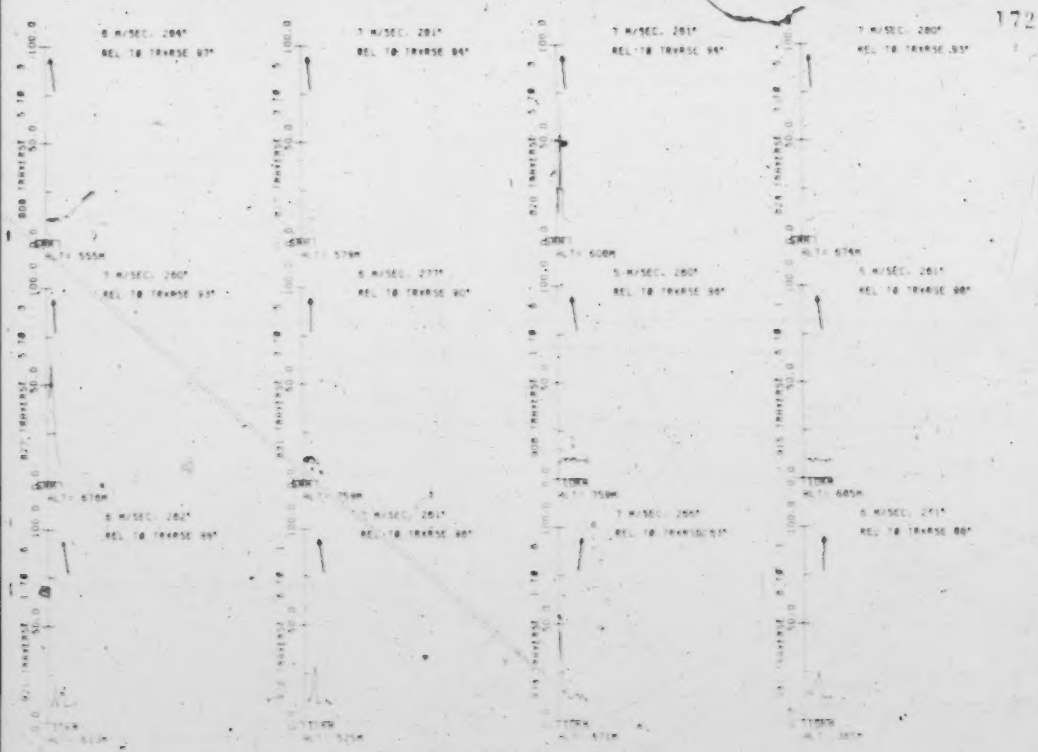

6 M/SEC. 256°
REL TO TRANSE 93°
ALT= 555M
7 M/SEC. 261°
REL TO TRANSE 94°
ALT= 579M
7 M/SEC. 261°
REL TO TRANSE 94°
ALT= 600M
7 M/SEC. 260°
REL TO TRANSE 93°
ALT= 674M
7 M/SEC. 260°
REL TO TRANSE 93°
ALT= 670M
8 M/SEC. 277°
REL TO TRANSE 93°
ALT= 750M
5 M/SEC. 260°
REL TO TRANSE 90°
ALT= 750M
5 M/SEC. 261°
REL TO TRANSE 90°
ALT= 685M
6 M/SEC. 264°
REL TO TRANSE 90°
7 M/SEC. 261°
REL TO TRANSE 90°
7 M/SEC. 264°
REL TO TRANSE 93°
6 M/SEC. 271°
REL TO TRANSE 90°
CHARGE IN MILLIVOLTS

CHARGE IN MILLIVOLTS.

MAP 6

BSCAT IN $10^{-5}M^{-1}$

MAP 6

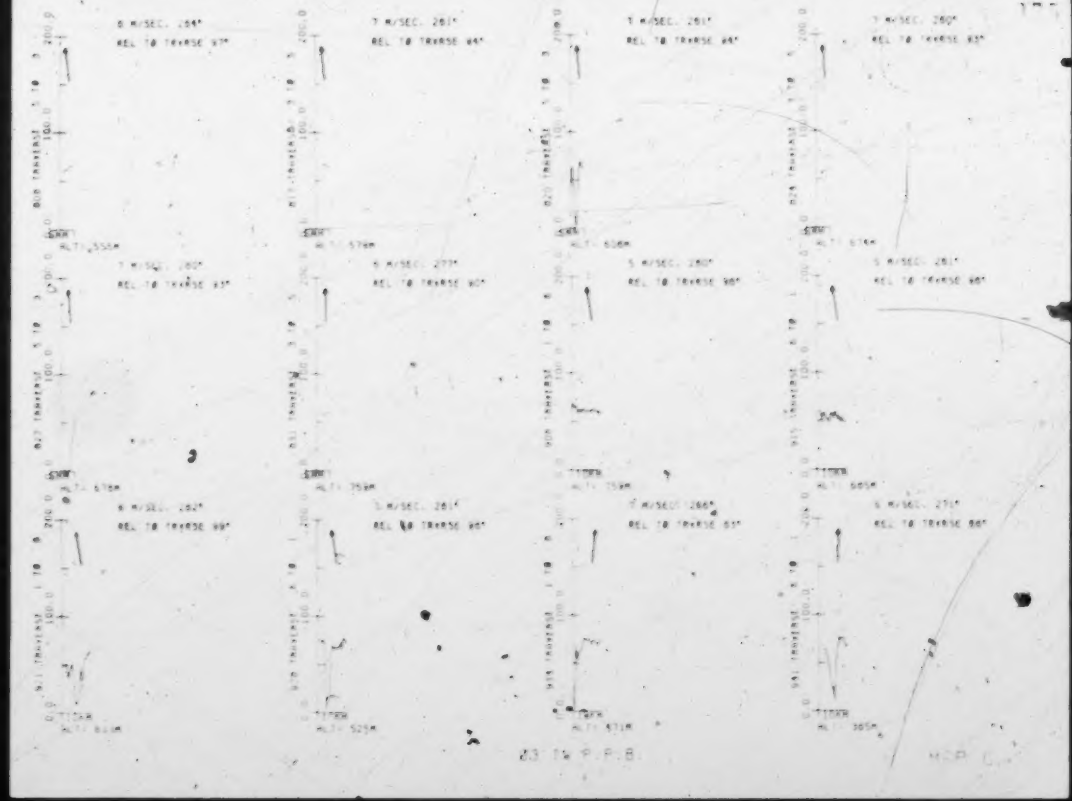

8 M/SEC. 284°
REL TO TRANSE 87°
ALT= 555M
7 M/SEC. 281°
REL TO TRANSE 84°
ALT= 579M
7 M/SEC. 281°
REL TO TRANSE 94°
ALT= 608M
7 M/SEC. 280°
REL TO TRANSE 93°
ALT= 674M
7 M/SEC. 280°
REL TO TRANSE 93°
ALT= 678M
6 M/SEC. 277°
REL TO TRANSE 90°
ALT= 750M
5 M/SEC. 280°
REL TO TRANSE 90°
ALT= 750M
5 M/SEC. 281°
REL TO TRANSE 90°
ALT= 685M
5 M/SEC. 282°
REL TO TRANSE 90°
ALT= 774M
5 M/SEC. 281°
REL TO TRANSE 90°
ALT= 525M
7 M/SEC. 284°
REL TO TRANSE 91°
ALT= 670M
5 M/SEC. 281°
REL TO TRANSE 88°
ALT= 1185M

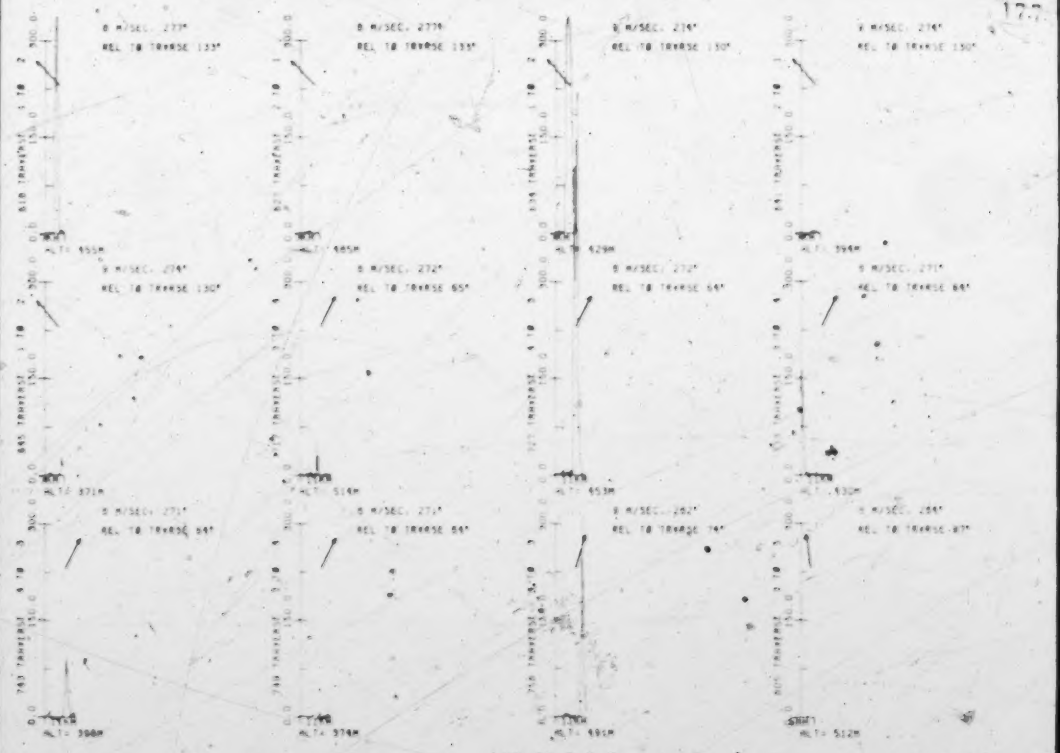
BSCAT IN $10^{-5}M^{-1}$

MAP 5

23 IN P.P.B.

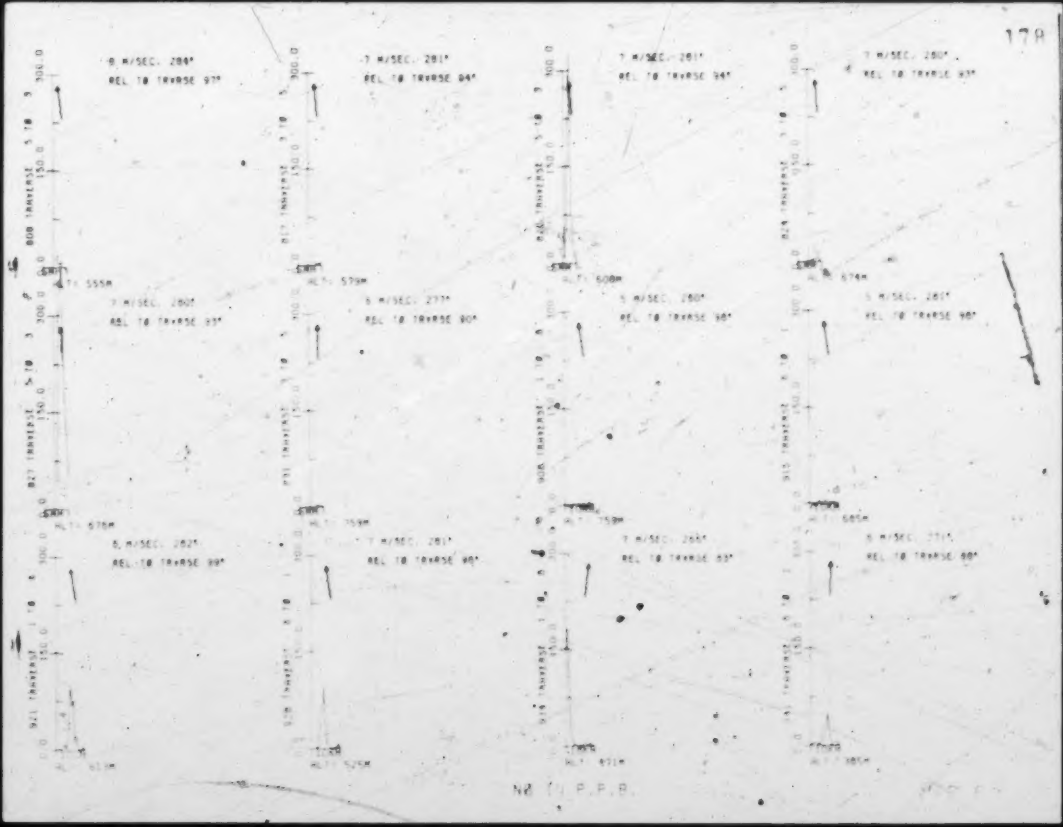
MAP 6


6 M/SEC. 254°
REL TO TRANSE 97°
7 M/SEC. 261°
REL TO TRANSE 94°
7 M/SEC. 261°
REL TO TRANSE 99°
7 M/SEC. 260°
REL TO TRANSE 93°
ALT: 555M
ALT: 576M
ALT: 526M
ALT: 574M
7 M/SEC. 260°
REL TO TRANSE 93°
5 M/SEC. 277°
REL TO TRANSE 90°
5 M/SEC. 280°
REL TO TRANSE 90°
5 M/SEC. 281°
REL TO TRANSE 90°
ALT: 578M
ALT: 754M
ALT: 605M
6 M/SEC. 262°
REL TO TRANSE 99°
5 M/SEC. 261°
REL TO TRANSE 95°
5 M/SEC. 266°
REL TO TRANSE 91°
5 M/SEC. 271°
REL TO TRANSE 86°
ALT: 525M
ALT: 631M
ALT: 395M



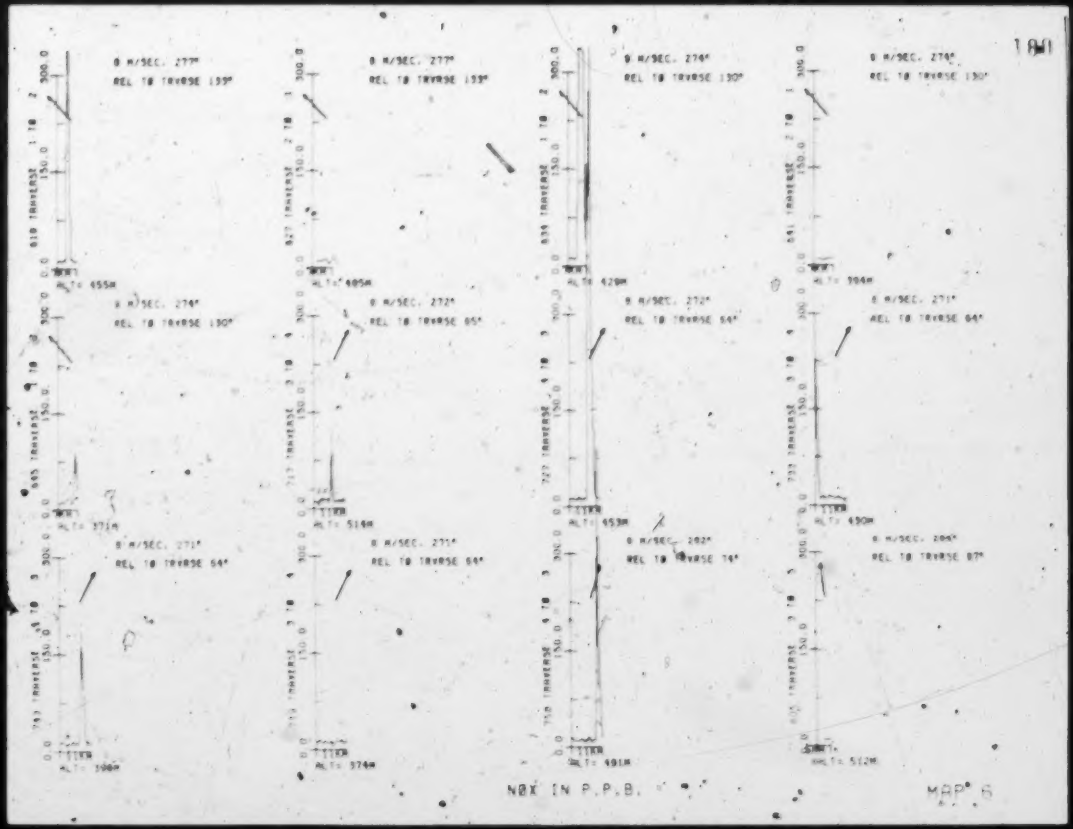
NB IN P.P.B.

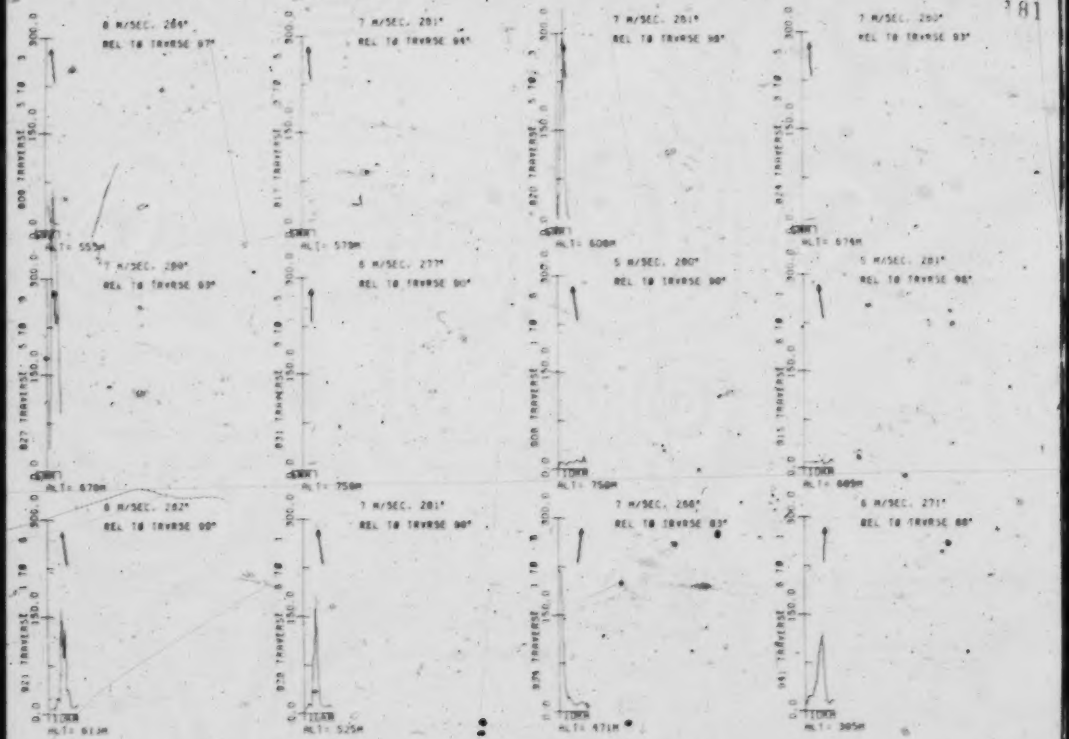
MAP C


-8 M/SEC. 288°
REL TO TRANSE 97°
-7 M/SEC. 281°
REL TO TRANSE 84°
7 M/SEC. 281°
REL TO TRANSE 94°
7 M/SEC. 280°
REL TO TRANSE 93°
7 M/SEC. 280°
REL TO TRANSE 93°
5 M/SEC. 277°
REL TO TRANSE 90°
5 M/SEC. 280°
REL TO TRANSE 90°
5 M/SEC. 281°
REL TO TRANSE 90°
6 M/SEC. 282°
REL TO TRANSE 89°
7 M/SEC. 281°
REL TO TRANSE 90°
7 M/SEC. 266°
REL TO TRANSE 83°
5 M/SEC. 271°
REL TO TRANSE 88°

NO IN P.P.B.

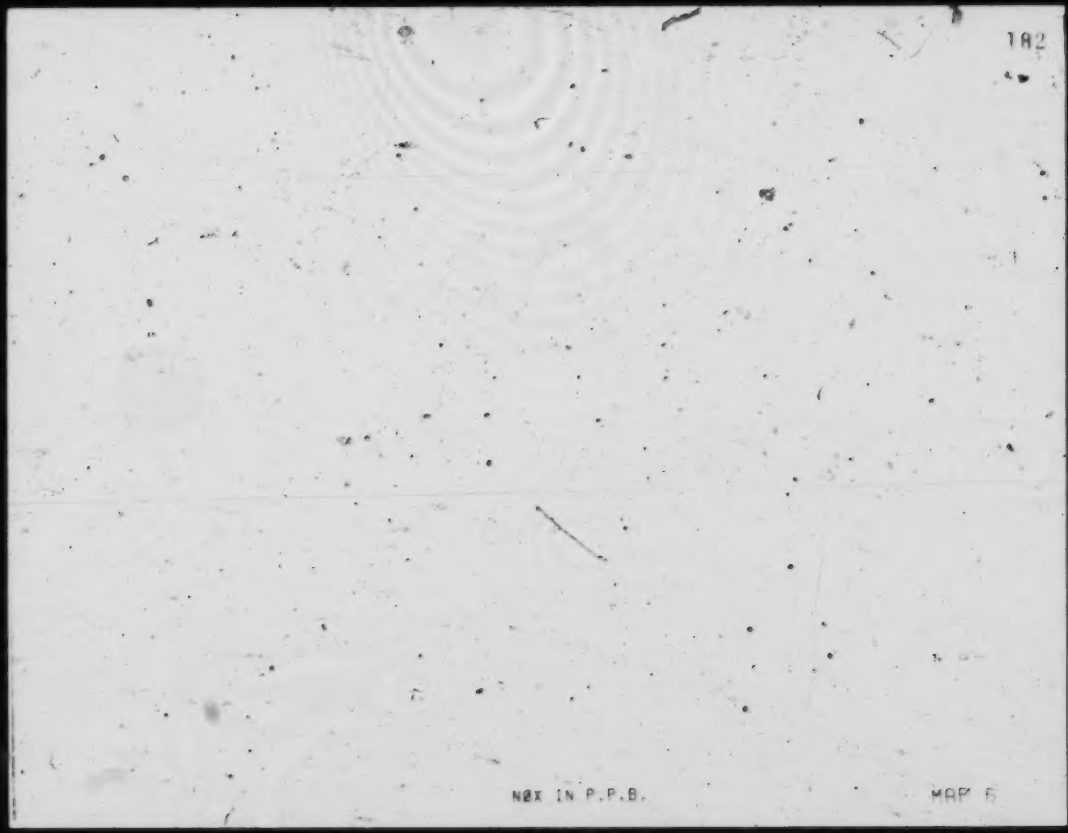
MAP 5

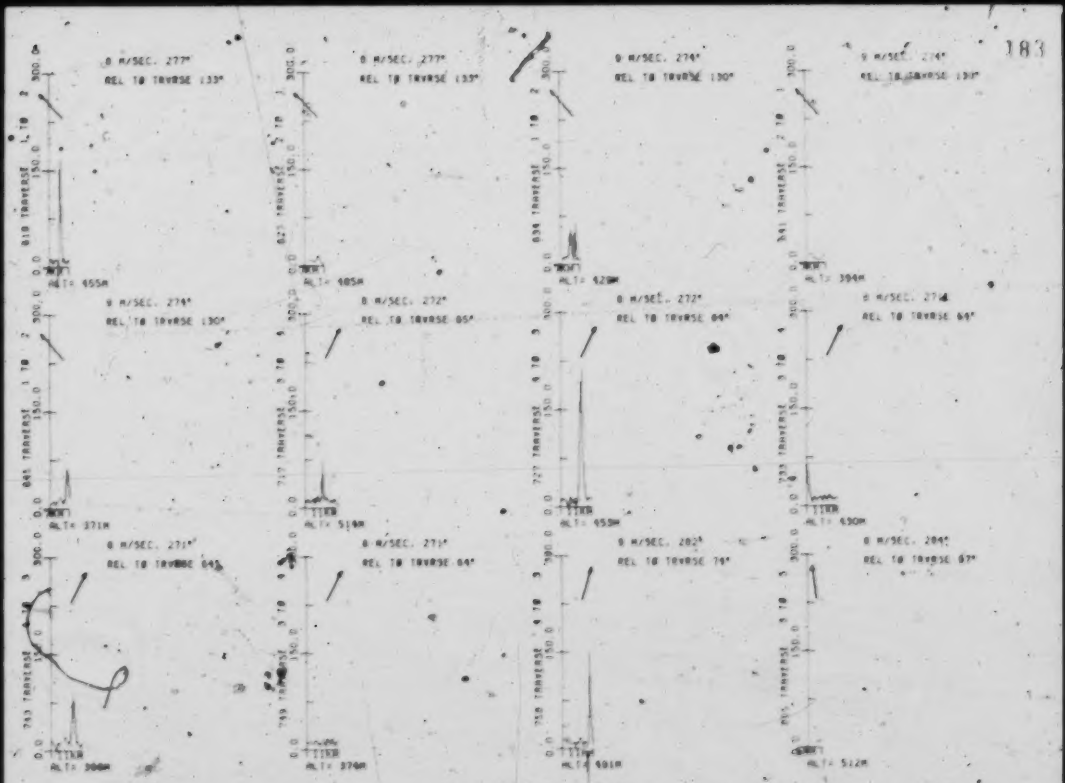

9 M/SEC. 277°
REL TO TRVRSE 139°
9 M/SEC. 277°
REL TO TRVRSE 139°
9 M/SEC. 274°
REL TO TRVRSE 130°
9 M/SEC. 274°
REL TO TRVRSE 130°
9 M/SEC. 274°
REL TO TRVRSE 130°
9 M/SEC. 272°
REL TO TRVRSE 65°
9 M/SEC. 272°
REL TO TRVRSE 64°
9 M/SEC. 271°
REL TO TRVRSE 64°
9 M/SEC. 271°
REL TO TRVRSE 64°
9 M/SEC. 271°
REL TO TRVRSE 64°
9 M/SEC. 282°
REL TO TRVRSE 74°
9 M/SEC. 286°
REL TO TRVRSE 87°
NOX IN P.P.B.
MAP 5



NØX IN P.P.B.

MEP 5


NOX IN P.P.B.
MAP 6



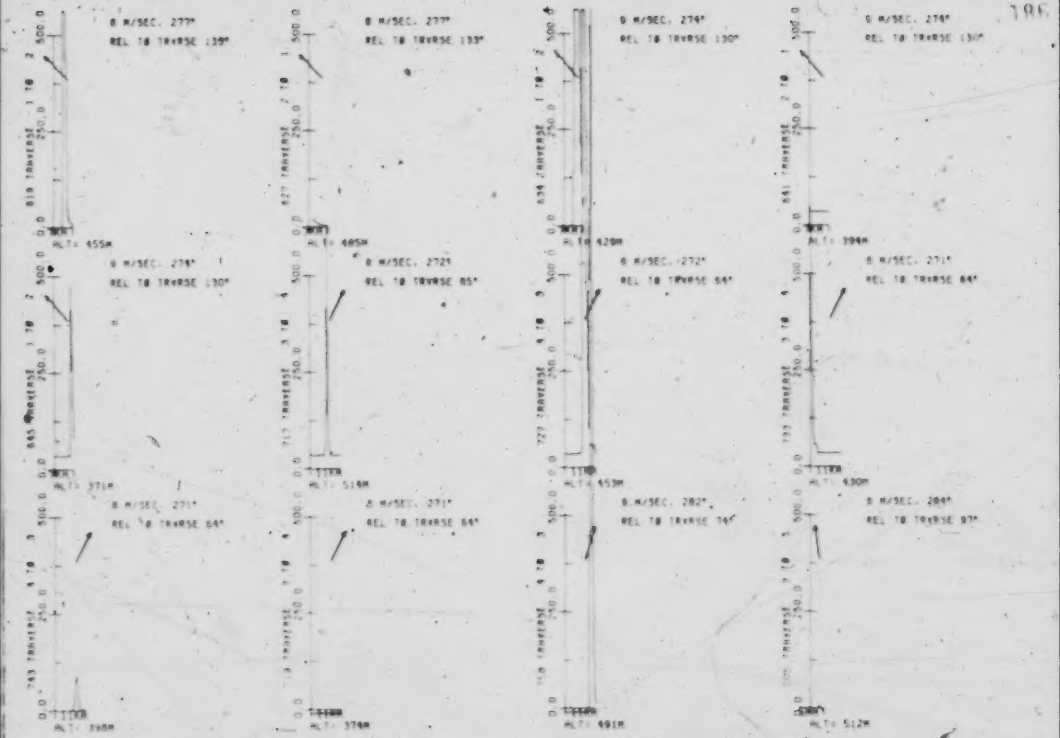
NØ2 IN P.P.B.

MAP 6.

NAZ IN P.P.B.

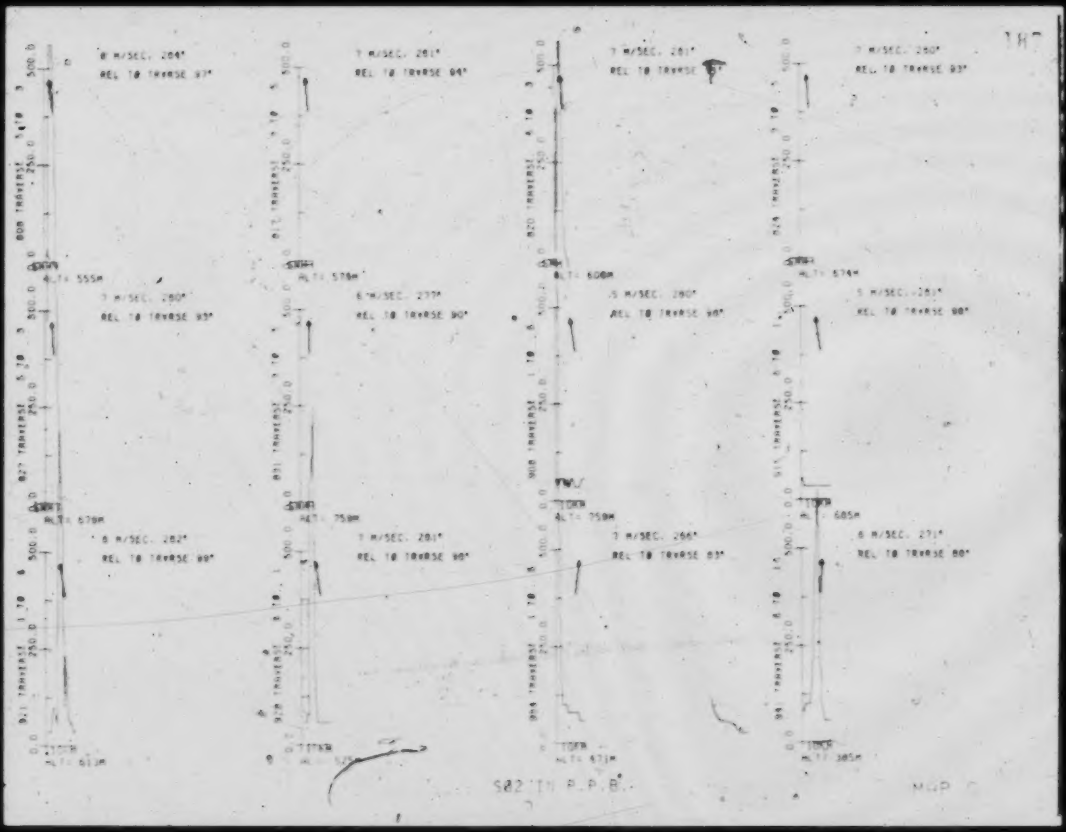
MAP C

NØ2 IN P.P.B.



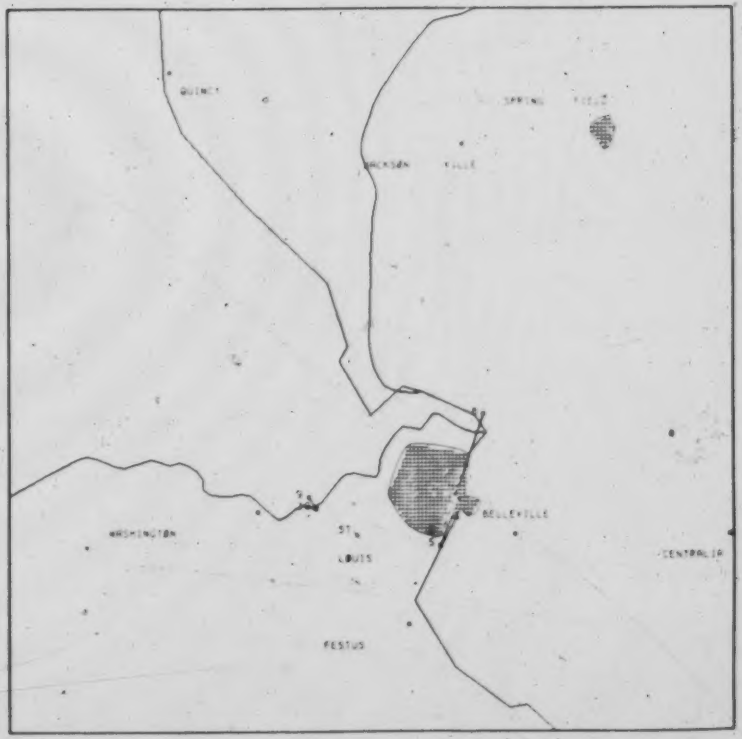
S82 IN P.P.B.

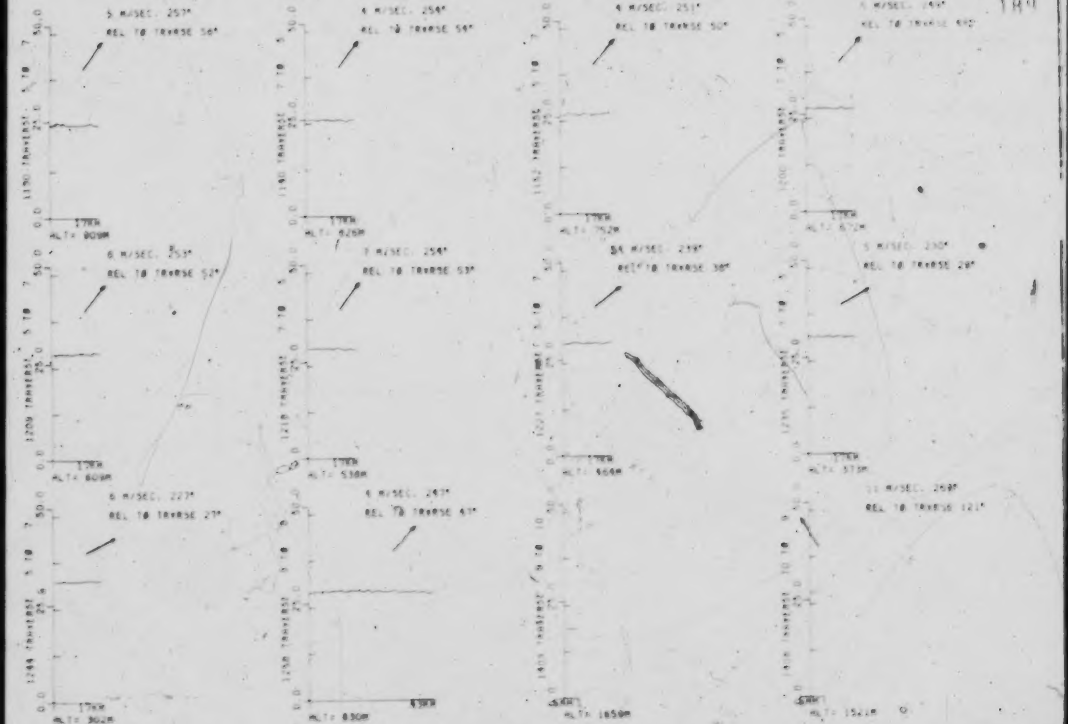
MAP 5.1


8 M/SEC. 284°
REL TO TRANSE 93°
ALT: 555M
7 M/SEC. 281°
REL TO TRANSE 94°
ALT: 578M
7 M/SEC. 281°
REL TO TRANSE 93°
ALT: 600M
7 M/SEC. 280°
REL TO TRANSE 93°
ALT: 674M
7 M/SEC. 280°
REL TO TRANSE 93°
ALT: 679M
6 M/SEC. 277°
REL TO TRANSE 90°
ALT: 750M
5 M/SEC. 280°
REL TO TRANSE 90°
ALT: 750M
5 M/SEC. 281°
REL TO TRANSE 90°
ALT: 685M
6 M/SEC. 282°
REL TO TRANSE 90°
ALT: 613M
7 M/SEC. 281°
REL TO TRANSE 90°
ALT: 671M
7 M/SEC. 266°
REL TO TRANSE 83°
ALT: 385M
6 M/SEC. 271°
REL TO TRANSE 80°

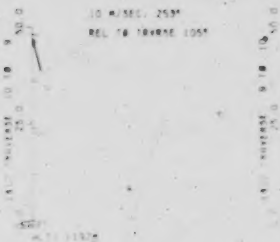
01471476

MAP 7



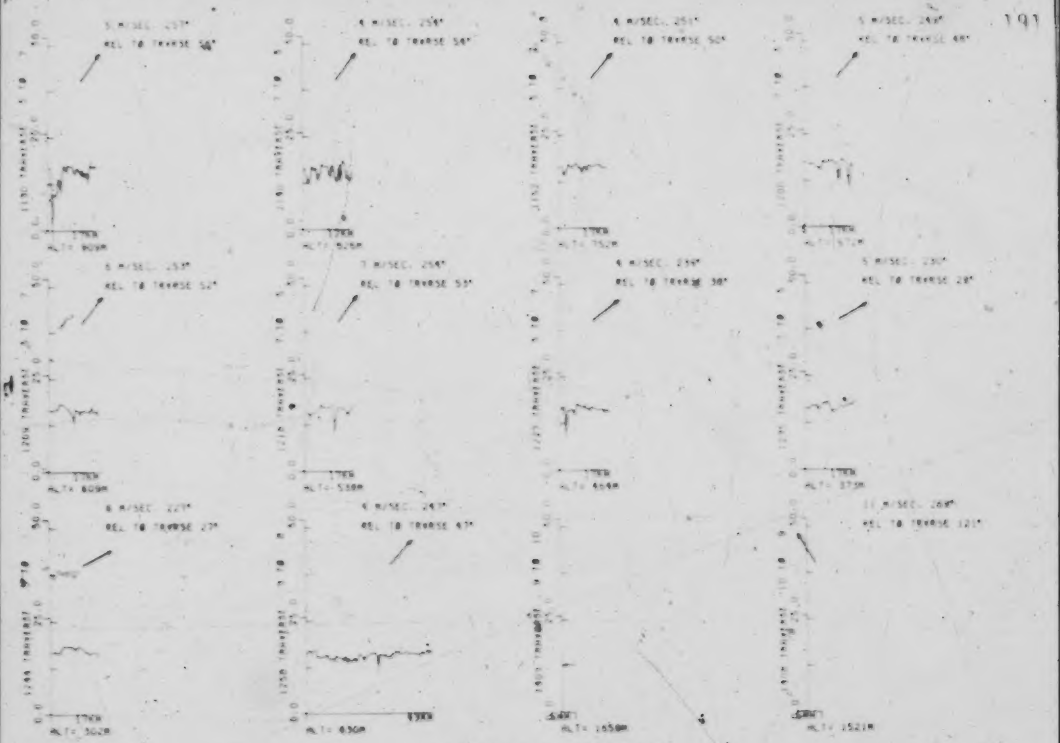

5 M/SEC. 257°
REL TO TRANSE 56°
ALT: 909M
4 M/SEC. 254°
REL TO TRANSE 54°
ALT: 925M
4 M/SEC. 251°
REL TO TRANSE 50°
ALT: 752M
4 M/SEC. 244°
REL TO TRANSE 43°
ALT: 672M
6 M/SEC. 253°
REL TO TRANSE 52°
ALT: 809M
7 M/SEC. 254°
REL TO TRANSE 53°
ALT: 538M
ALT: 664M
5 M/SEC. 230°
REL TO TRANSE 28°
ALT: 575M
6 M/SEC. 227°
REL TO TRANSE 27°
ALT: 304M
4 M/SEC. 247°
REL TO TRANSE 47°
ALT: 830M
ALT: 1650M
11 M/SEC. 258°
REL TO TRANSE 121°
ALT: 1542M
TEMP IN DEGREES C

MHP 7



TEMP IN DEGREES C

MAP 7

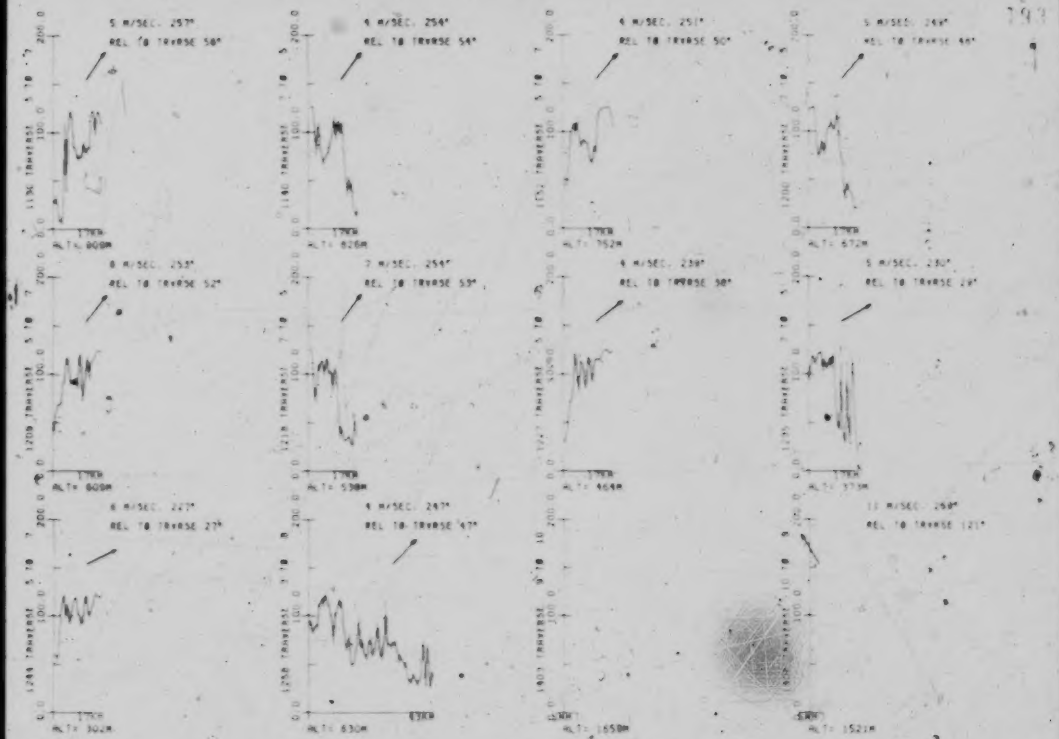


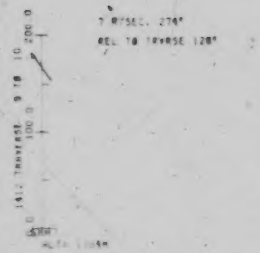
DEWPOINT IN DEGREES C

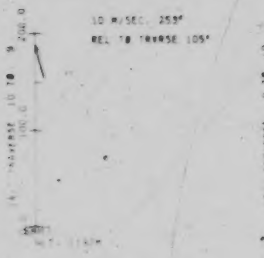
MAP 7

DEWPOINT IN DEGREES C

MAP 7

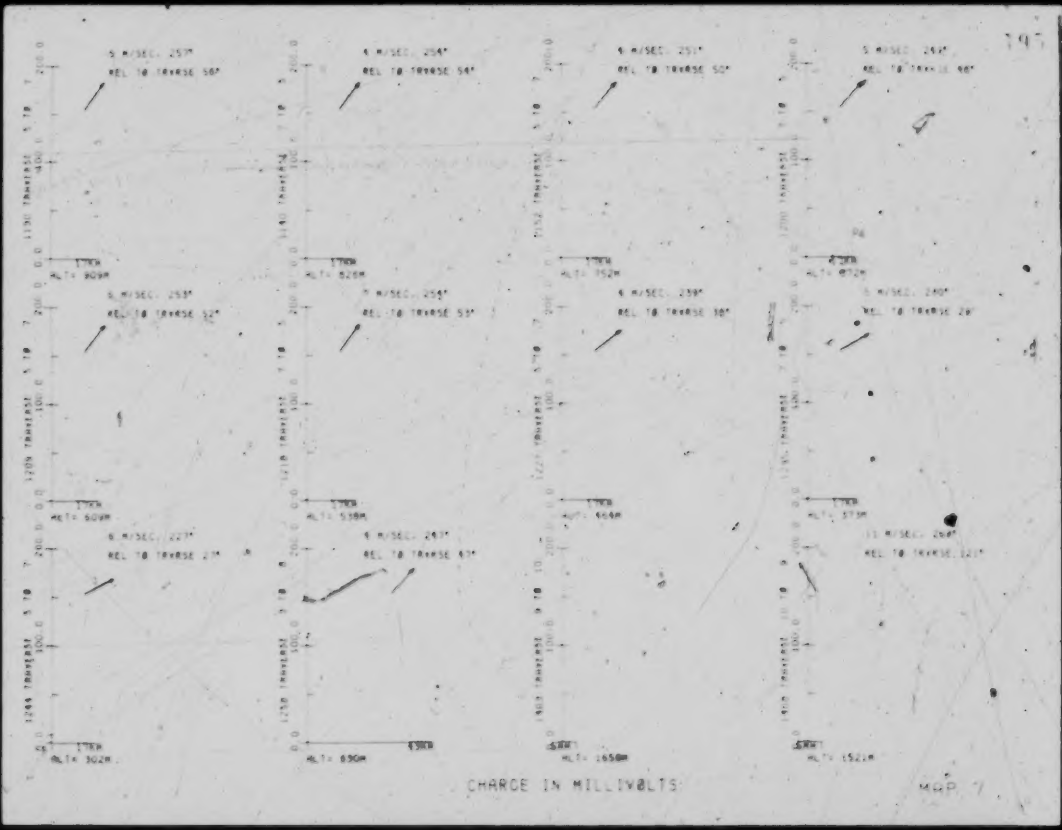

5 M/SEC. 257°
REL TO TRVRSE 50°
ALT= 808M
6 M/SEC. 254°
REL TO TRVRSE 54°
ALT= 626M
6 M/SEC. 251°
REL TO TRVRSE 50°
ALT= 752M
5 M/SEC. 249°
REL TO TRVRSE 46°
ALT= 672M
8 M/SEC. 253°
REL TO TRVRSE 52°
ALT= 609M
7 M/SEC. 254°
REL TO TRVRSE 53°
ALT= 538M
9 M/SEC. 238°
REL TO TRVRSE 50°
ALT= 464M
5 M/SEC. 230°
REL TO TRVRSE 29°
ALT= 373M
6 M/SEC. 227°
REL TO TRVRSE 27°
ALT= 302M
9 M/SEC. 247°
REL TO TRVRSE 47°
ALT= 630M
11 M/SEC. 250°
REL TO TRVRSE 121°
ALT= 1650M
ALT= 1521M
CNC IN $10^3 CM^{-3}$
MAP 7



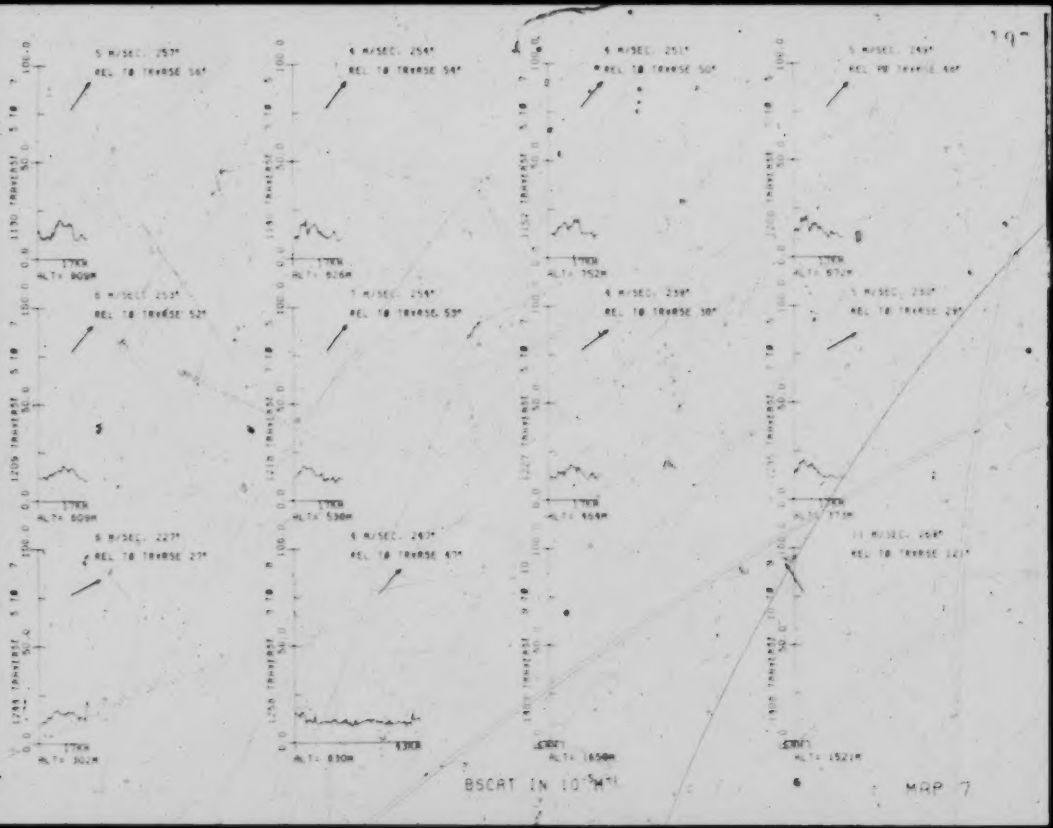


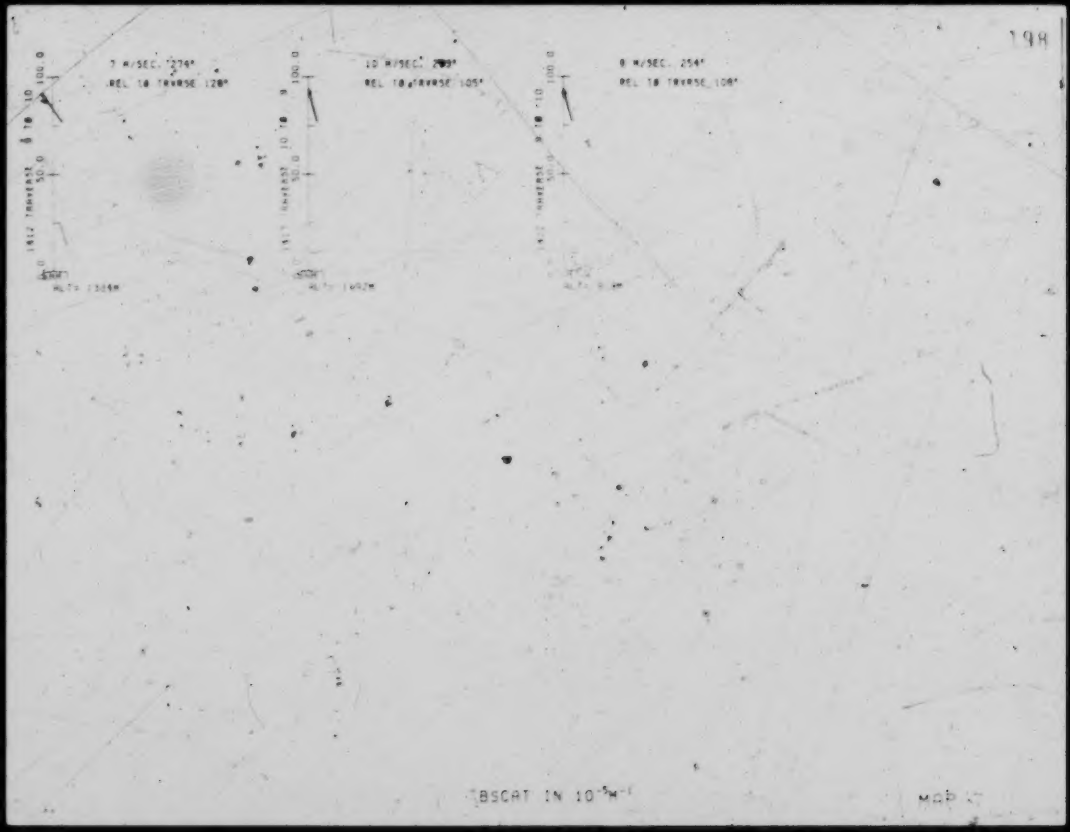
CNC IN 10^3CM^{-3}

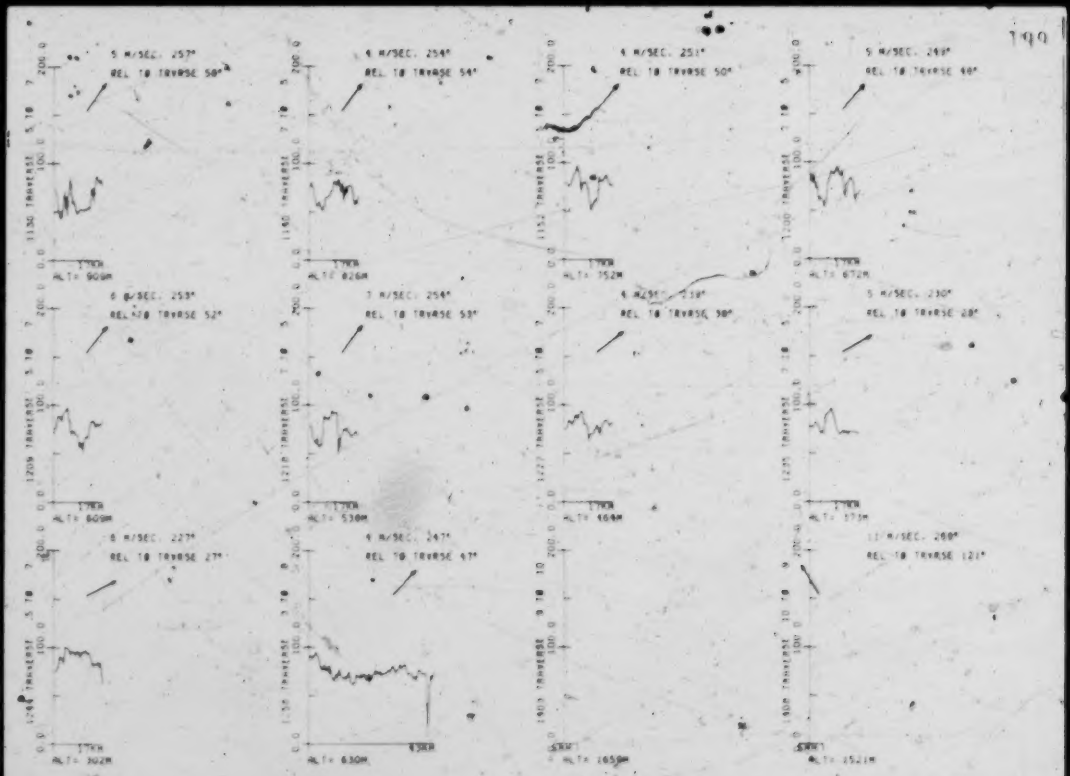
MAP 7


CHARGE IN MILLIVOLTS
MAP 7

CHARGE IN MILLIVOLTS

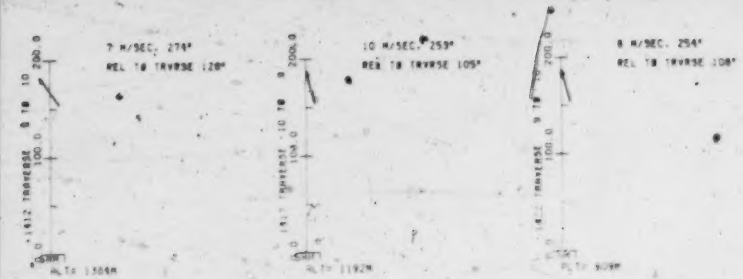

19
BSCAT IN 10
MAP 7


7 M/SEC. 274°
REL TO TRANSE 120°
10 M/SEC. 279°
REL TO TRANSE 105°
8 M/SEC. 254°
REL TO TRANSE 100°
TBSCAT IN 10⁻⁶M⁻¹



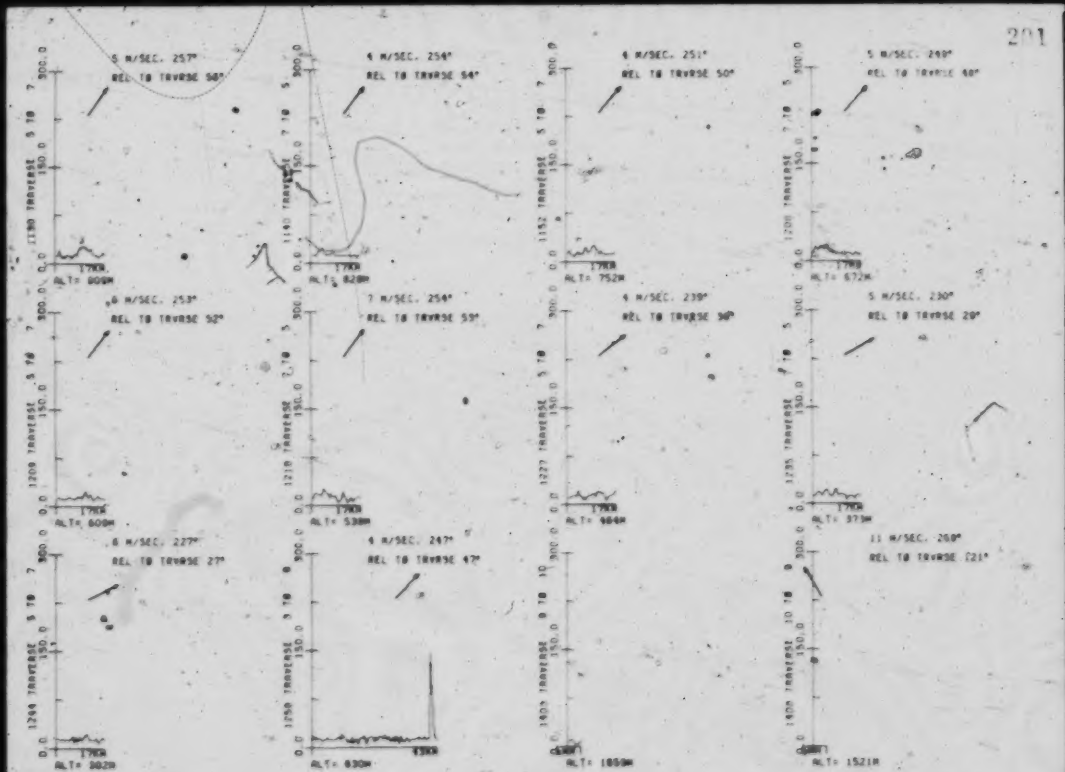
83 IN P.P.B.

MAP 7



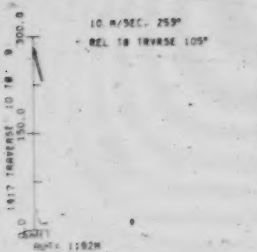
83 IN P.P.B.

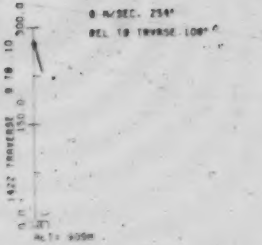
MAP 7



NØ IN P.P.B.

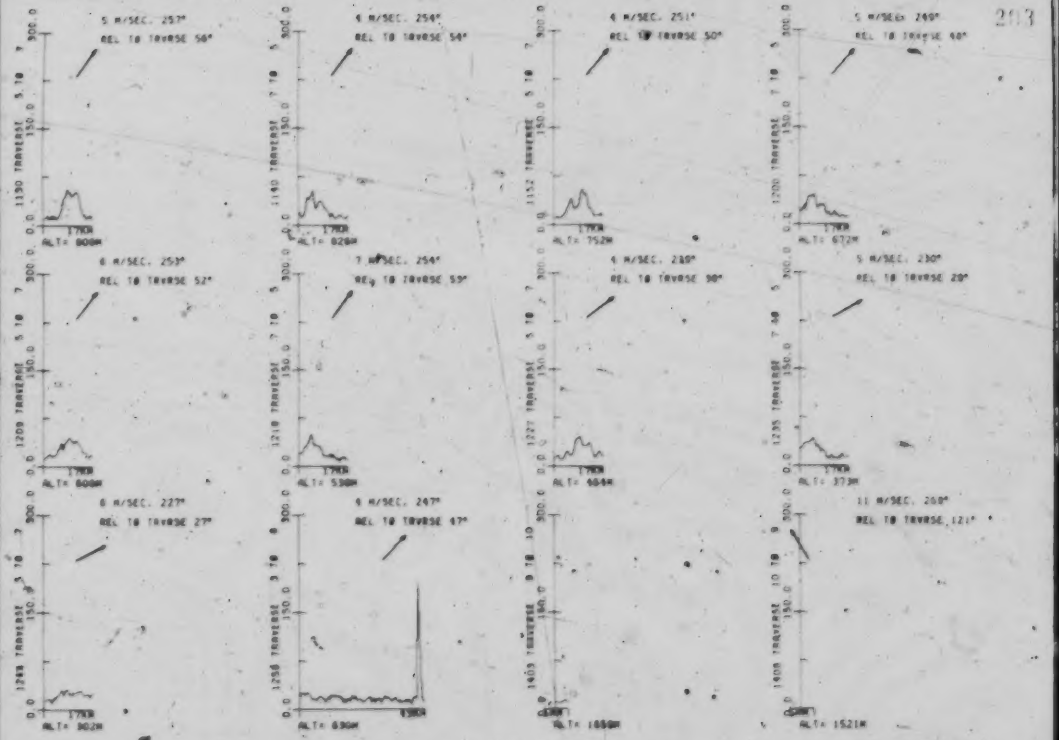
MAP 7





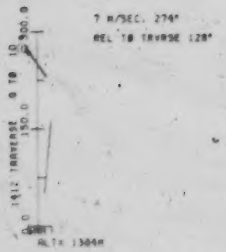
NO IN P.P.B.

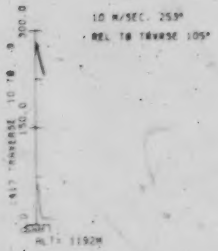
MAP 7

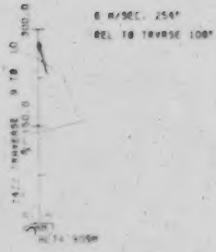


NØX IN P.P.B.

MAP 7

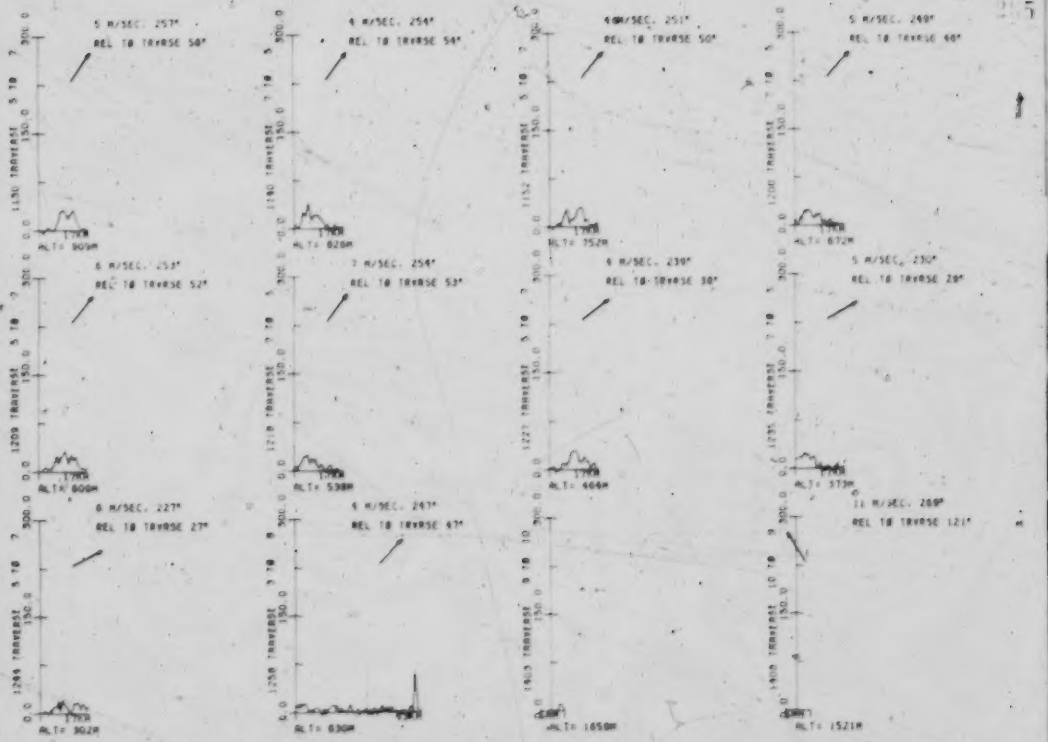






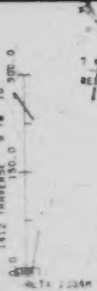
NOX IN P.P.B.

MAP 7

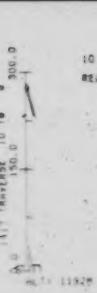


NØ2 IN P.P.B.

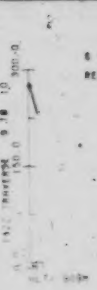
MAP 7



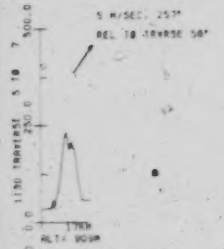
7 M/SEC. 274°
REL TO TRVRSE 120°

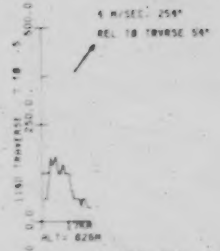


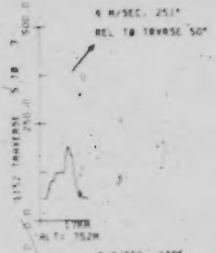
10 M/SEC. 253°
REL TO TRVRSE 105°

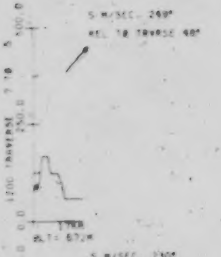


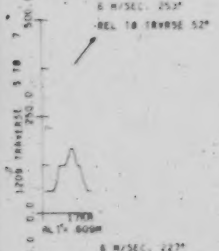
8 M/SEC. 254°
REL TO TRVRSE 108°

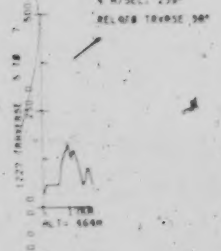


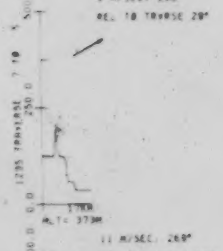


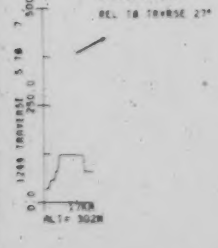


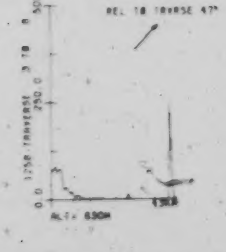


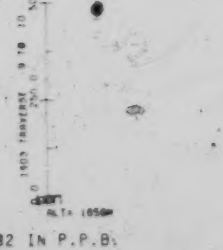


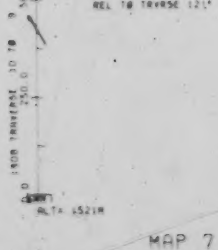






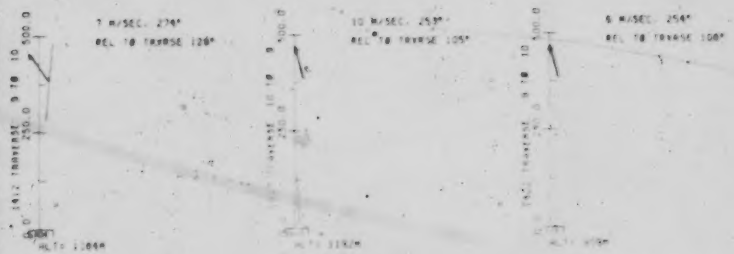




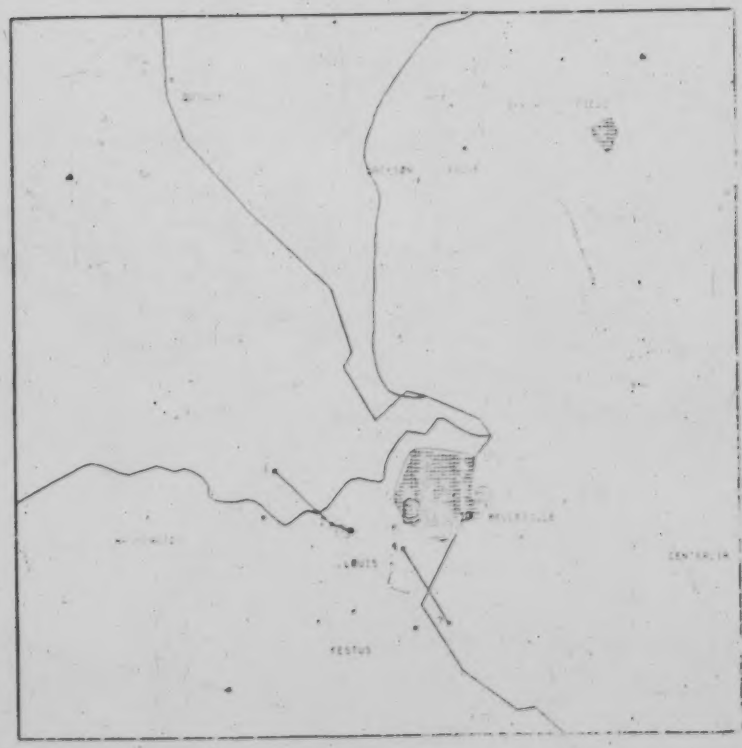


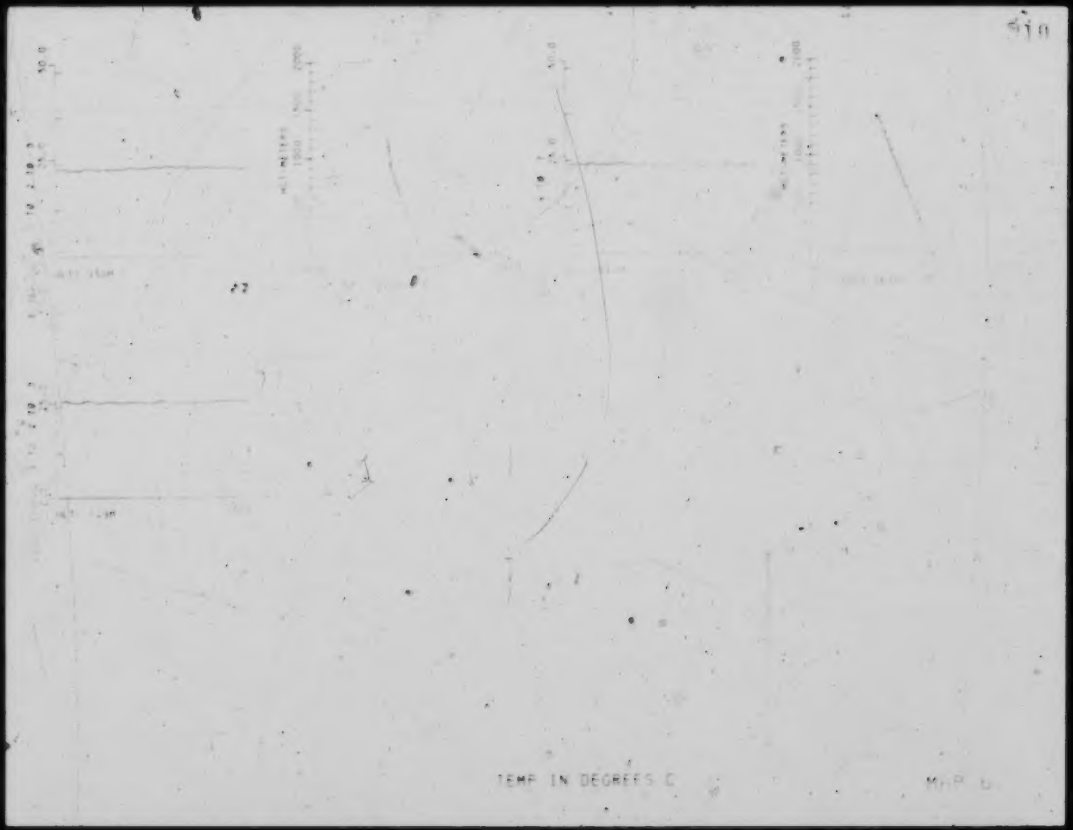
SB2 IN P.P.B.

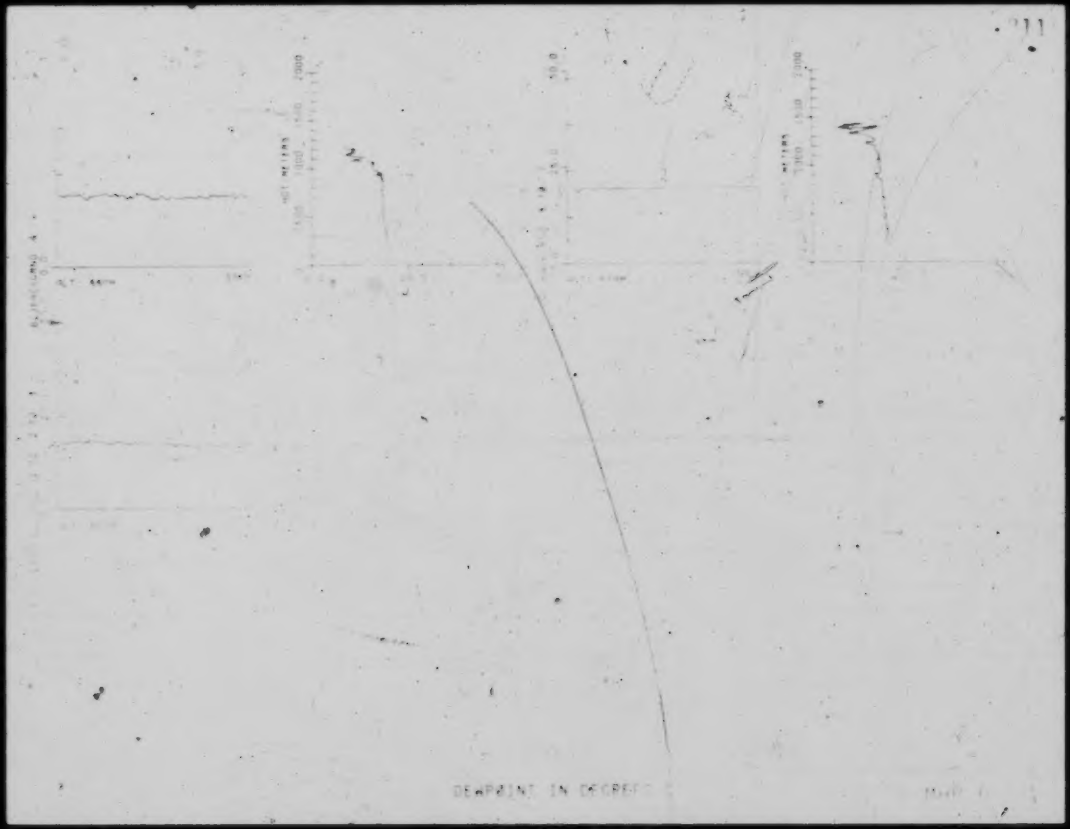
MAP 7

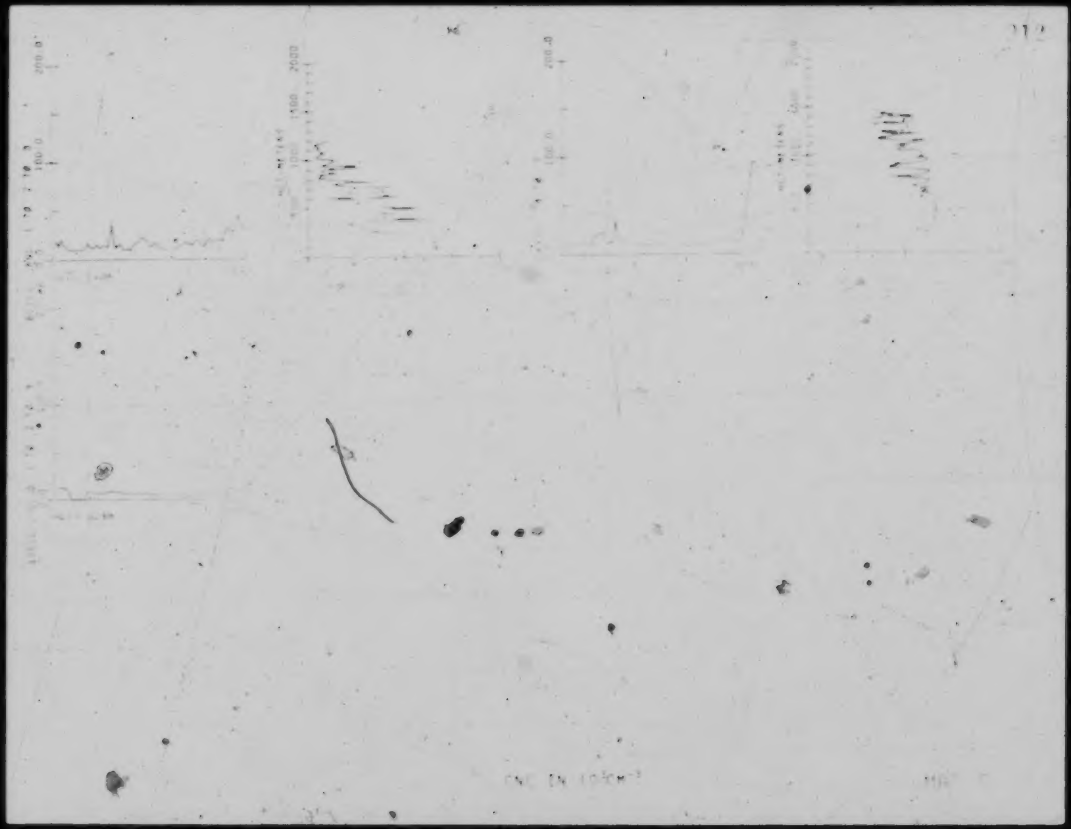

7 M/SEC. 274°
REL TO TRANSE 126°
10 M/SEC. 253°
REL TO TRANSE 105°
6 M/SEC. 254°
REL TO TRANSE 106°

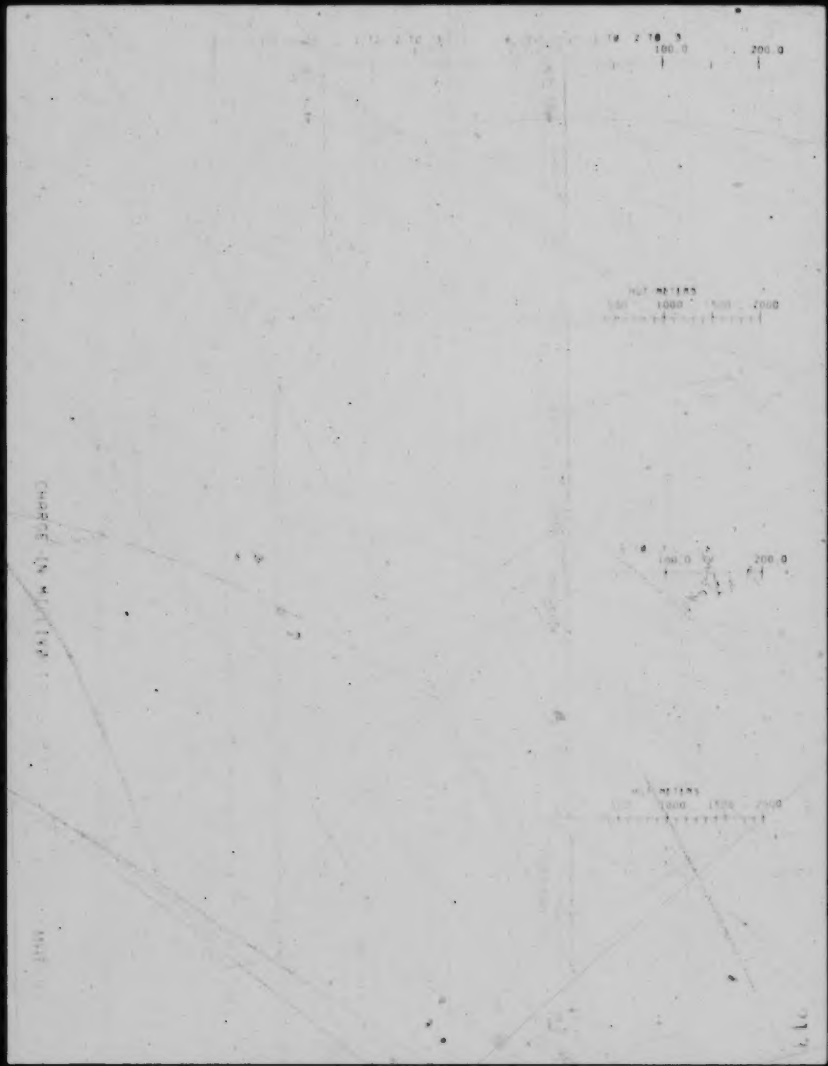
582 IN P.P.B.

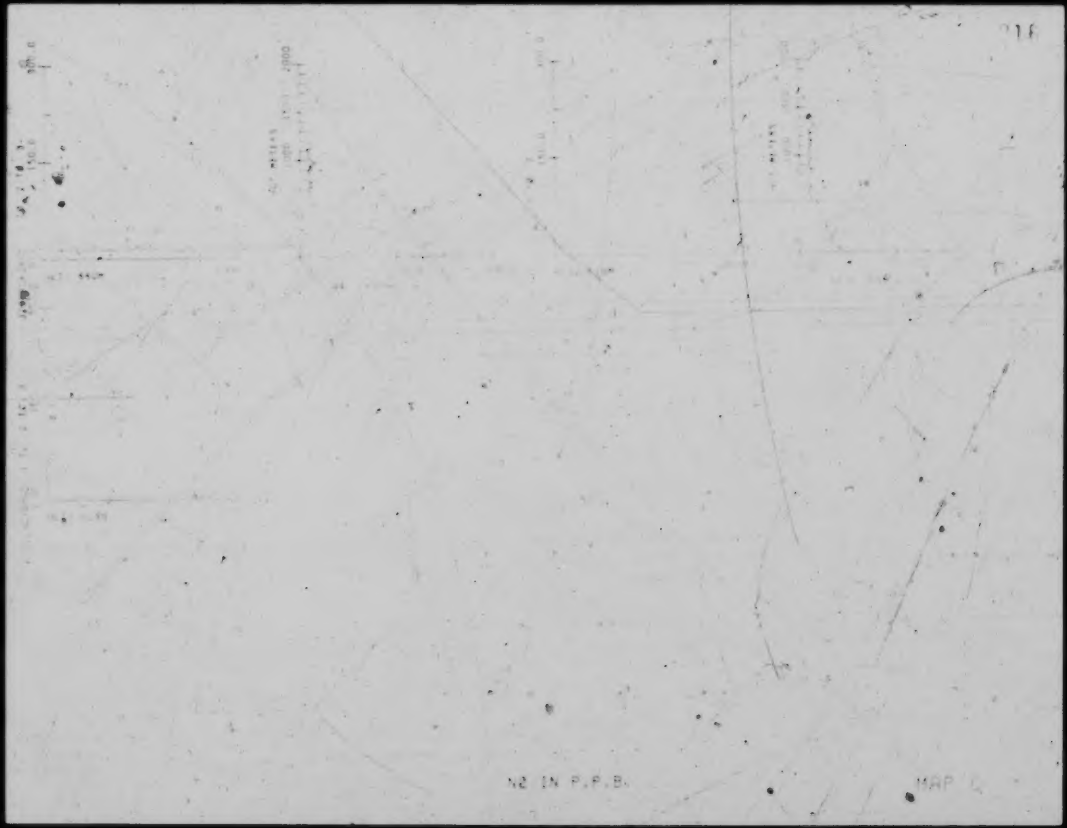

LOUIS
CENTRALIA


TEMP IN DEGREES C

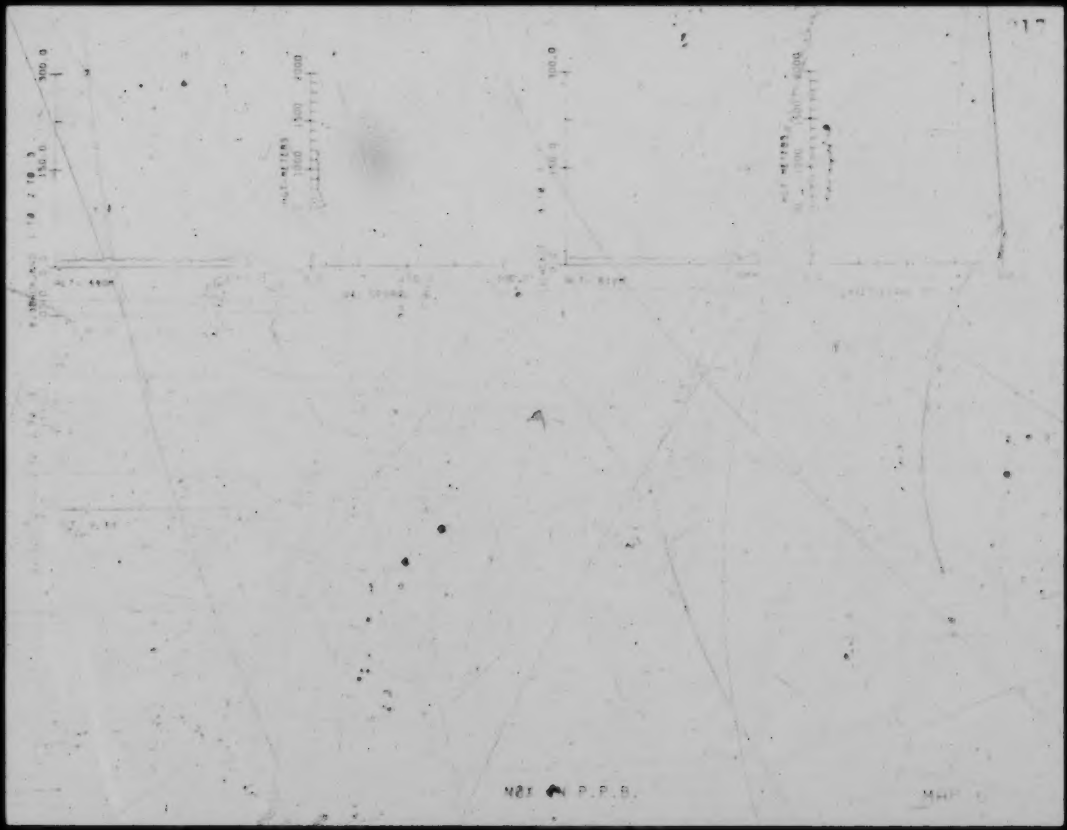

DEWPOINT IN DEGREES



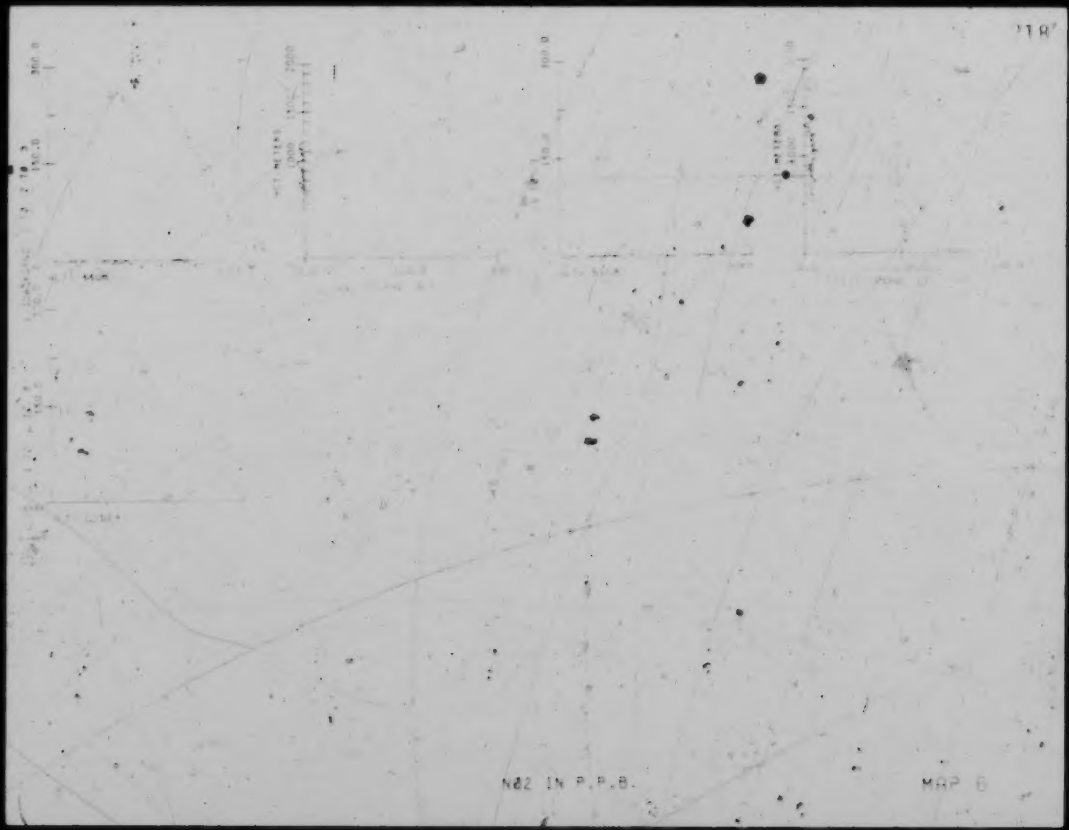



42 IN P.P.B.
MAP

R 11



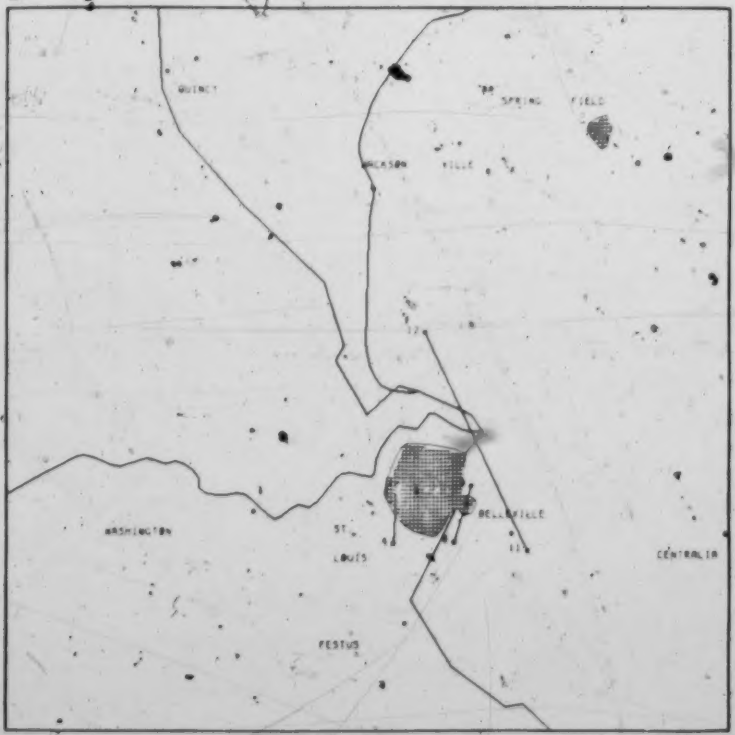
R 18

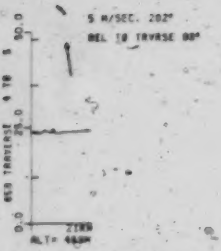


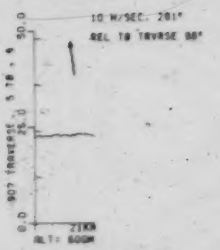
R 19

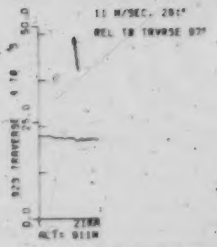
61671576

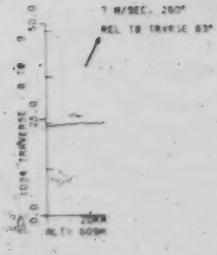
MAP 8

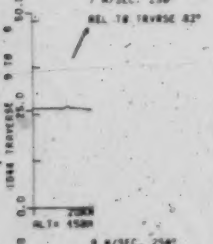


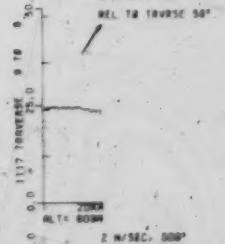


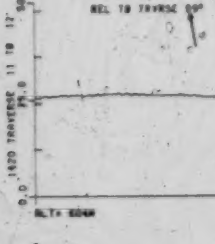


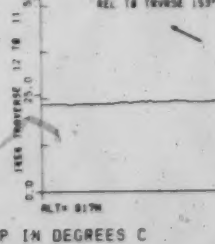






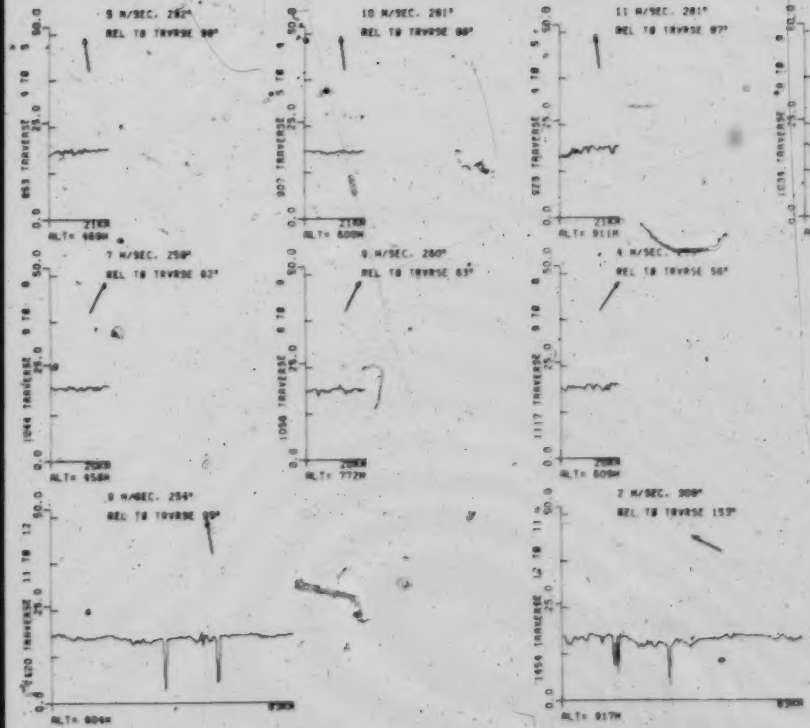






TEMP IN DEGREES C

MAP 8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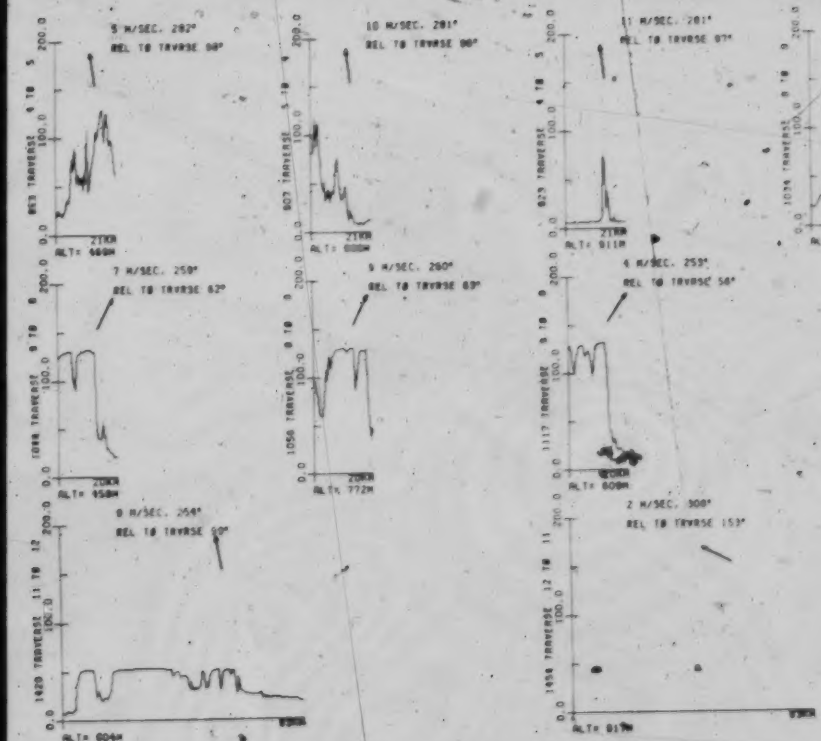
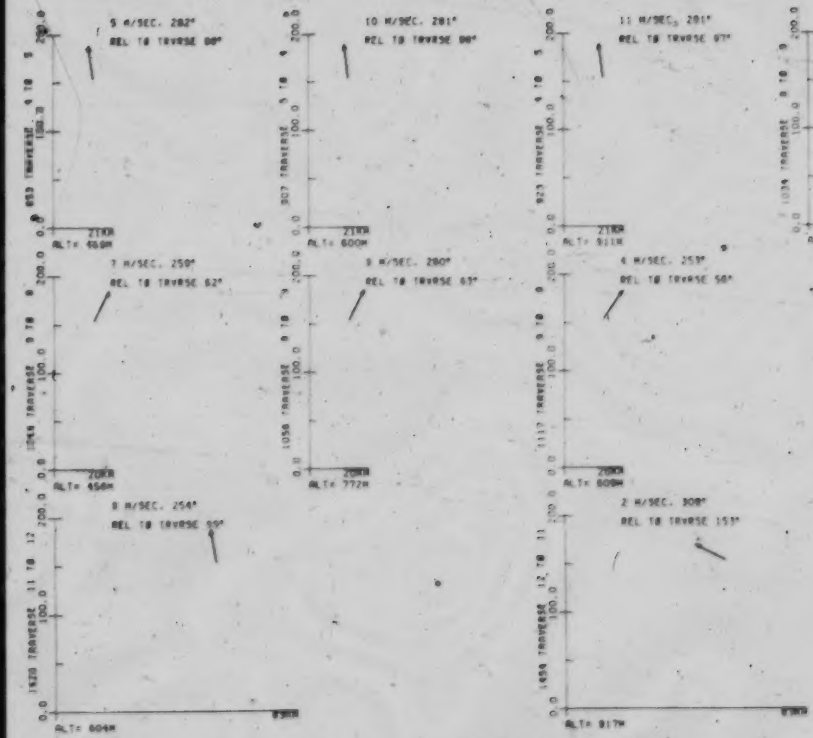
REL TO TRVRSE 99°
10 M/SEC. 281°
REL TO TRVRSE 98°
11 M/SEC. 281°
REL TO TRVRSE 97°
7 M/SEC. 280°
REL TO TRVRSE 95°
7 M/SEC. 259°
REL TO TRVRSE 82°
9 M/SEC. 260°
REL TO TRVRSE 83°
4 M/SEC.
REL TO TRVRSE 56°
9 M/SEC. 254°
REL TO TRVRSE 80°
2 M/SEC. 308°
REL TO TRVRSE 153°
DEWPOINT IN DEGREES C

MAP 8



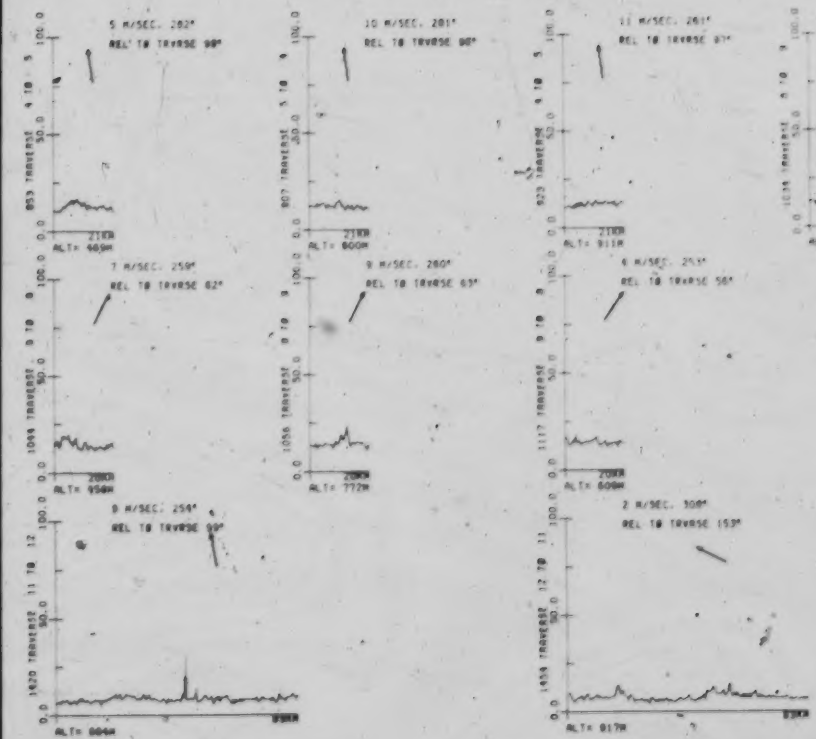
CNC IN $10^3 CM^{-3}$

MAP 8



CHARGE IN MILLIVOLTS

MAP 8



BSCAT IN $10^{-5}M^{-1}$

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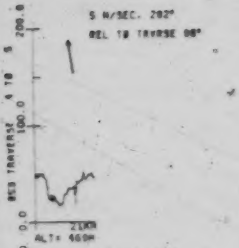
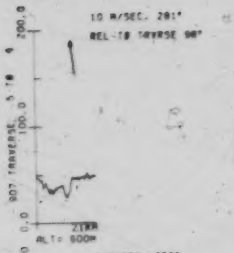
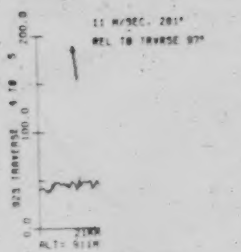
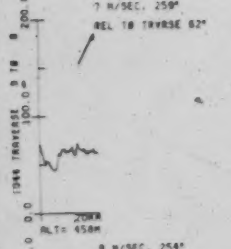
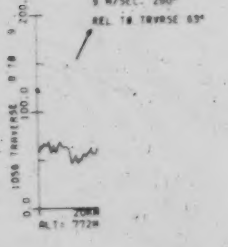
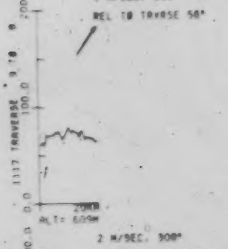


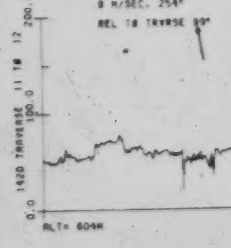


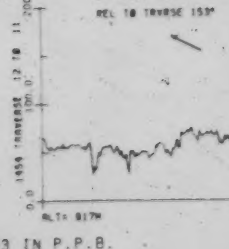






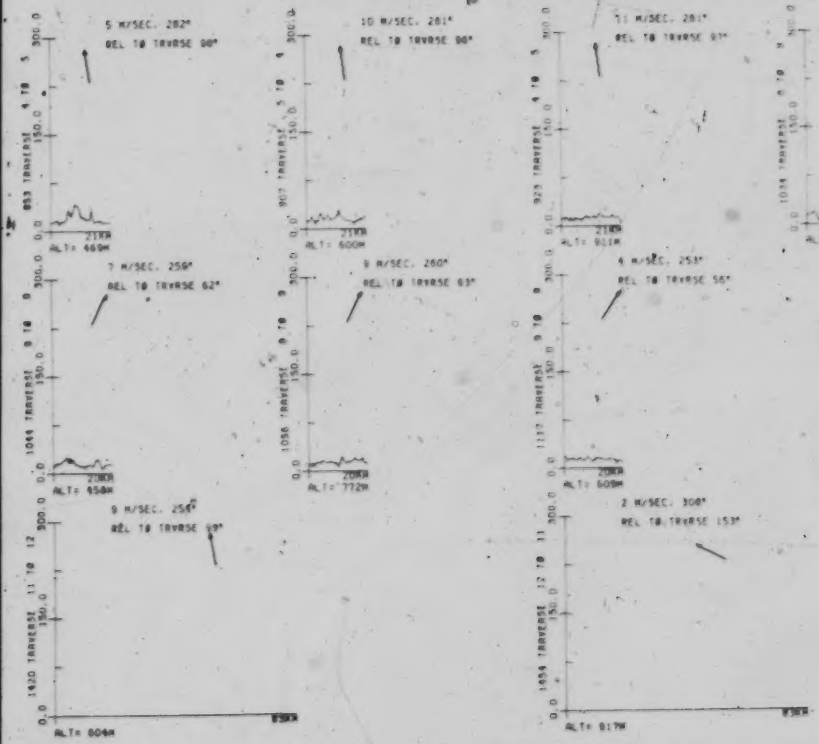






83 IN P.P.B.

MAP 8



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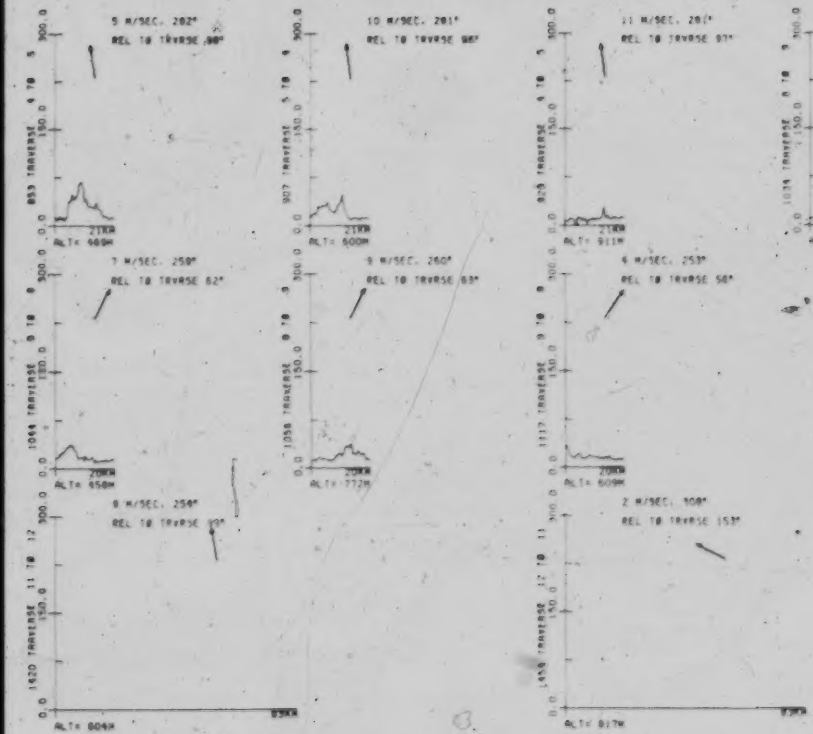
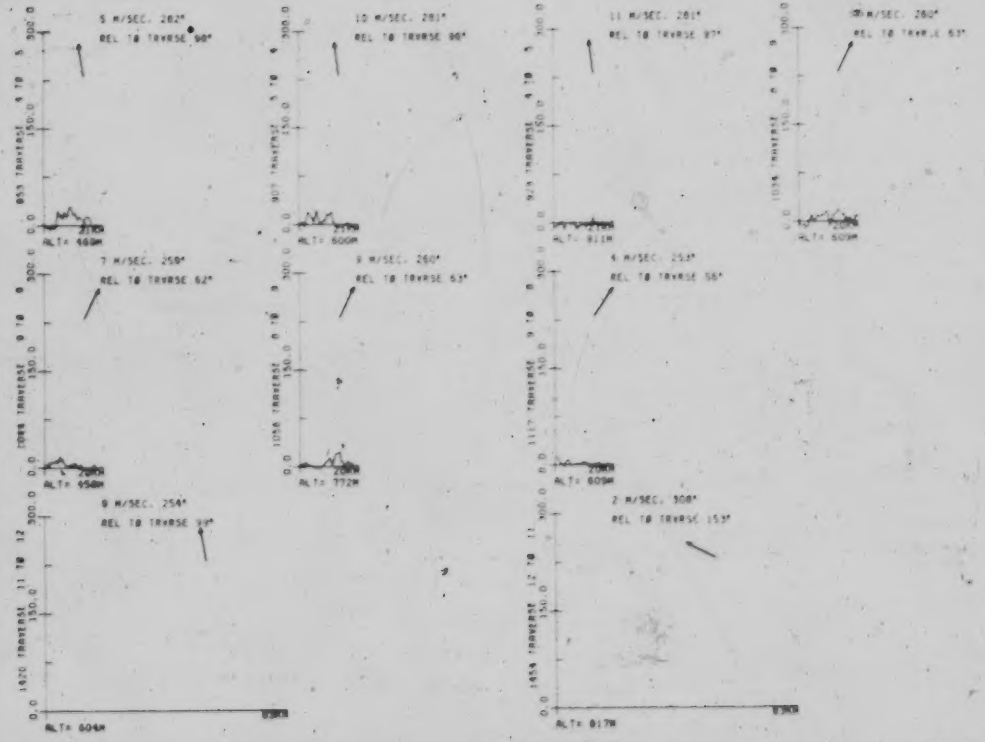
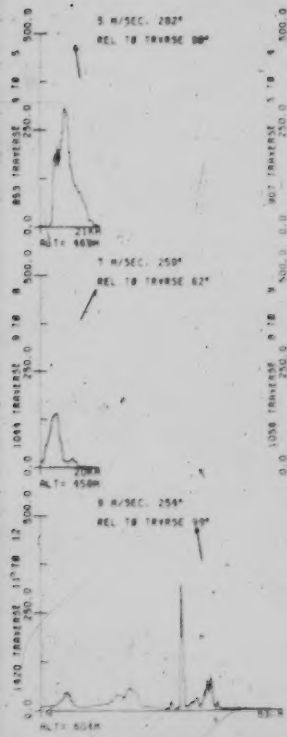

9 M/SEC. 202°
REL TO TRVRSE 80°
10 M/SEC. 201°
REL TO TRVRSE 98°
11 M/SEC. 201°
REL TO TRVRSE 97°
7 M/SEC. 260°
REL TO TRVRSE 93°
7 M/SEC. 250°
REL TO TRVRSE 82°
9 M/SEC. 260°
REL TO TRVRSE 83°
6 M/SEC. 253°
REL TO TRVRSE 58°
8 M/SEC. 250°
REL TO TRVRSE 70°
2 M/SEC. 108°
REL TO TRVRSE 153°
ALT= 609M
ALT= 600M
ALT= 911M
ALT= 609M
ALT= 450M
ALT= 772M
ALT= 609M
ALT= 804M
ALT= 817M
NØX IN P.P.B.

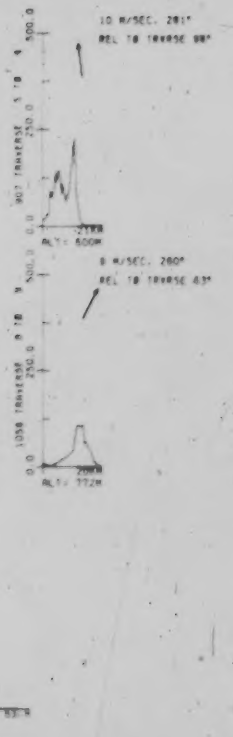
MAP 8



N82 IN P.P.B.

MAP 21


5 M/SEC. 282°
REL TO TRVRSE 88°
ALT: 468M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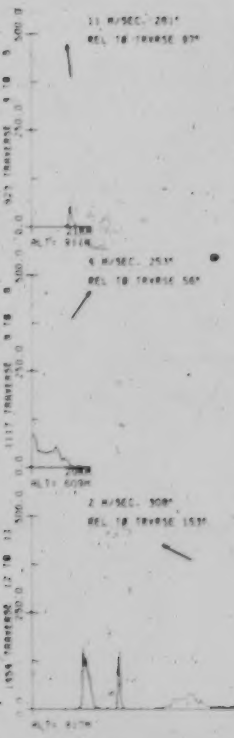
REL TO TRVRSE 88°
ALT: 500M


11 M/SEC. 281°
REL TO TRVRSE 87°
ALT: 911M

7 M/SEC. 280°
REL TO TRVRSE 83°
ALT: 609M

7 M/SEC. 259°
REL TO TRVRSE 62°
ALT: 458M

8 M/SEC. 280°
REL TO TRVRSE 83°
ALT: 772M

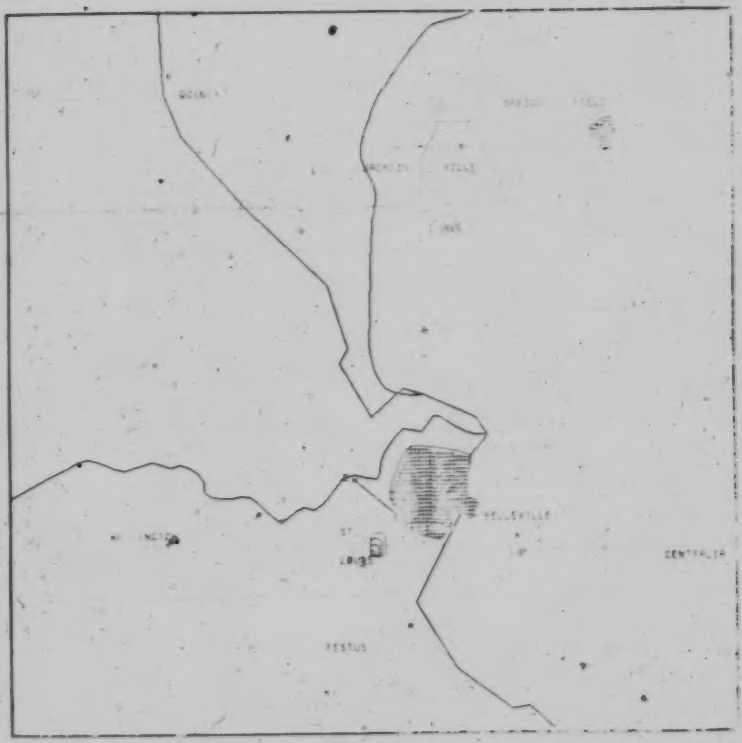
6 M/SEC. 253°
REL TO TRVRSE 56°
ALT: 609M

9 M/SEC. 254°
REL TO TRVRSE 59°
ALT: 604M

2 M/SEC. 308°
REL TO TRVRSE 153°

819/1876

MAP 7



METERS
1000
1500
2000
0
0.3
0.5
0.7
0.9
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
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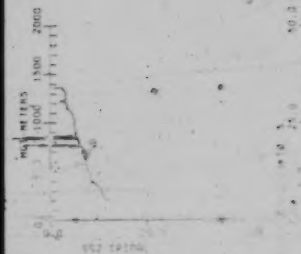
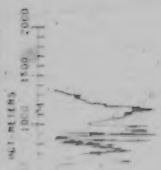
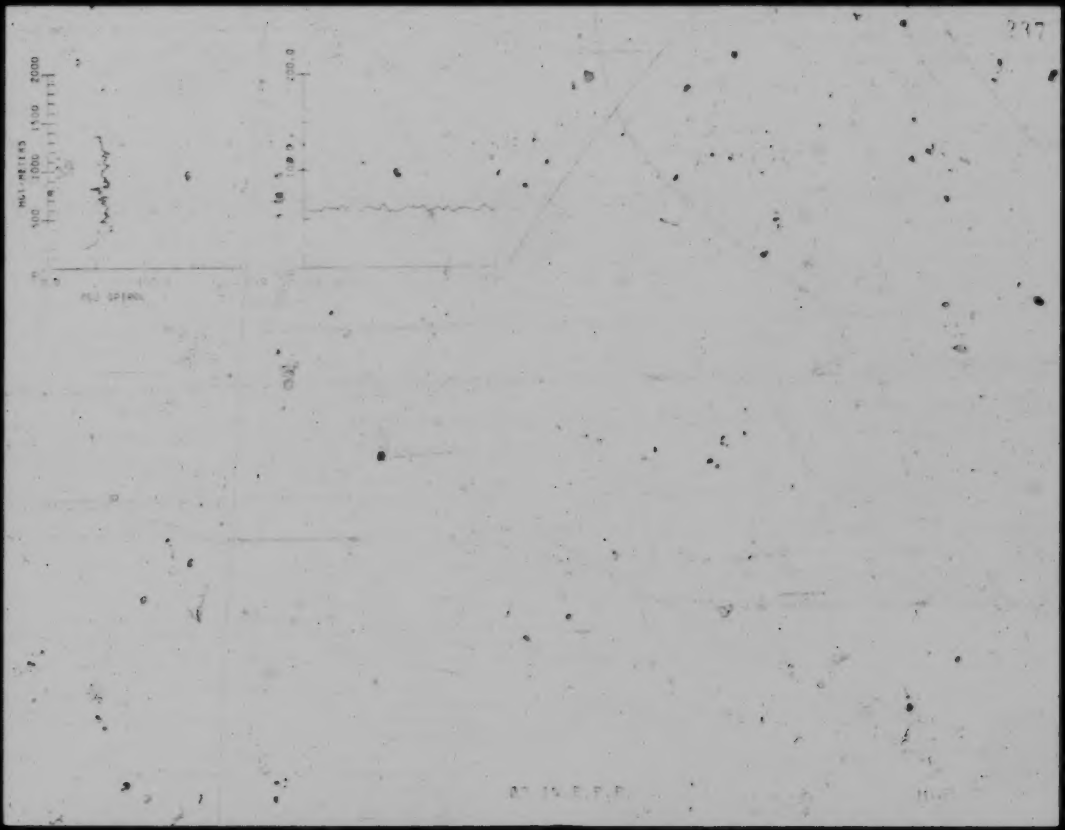
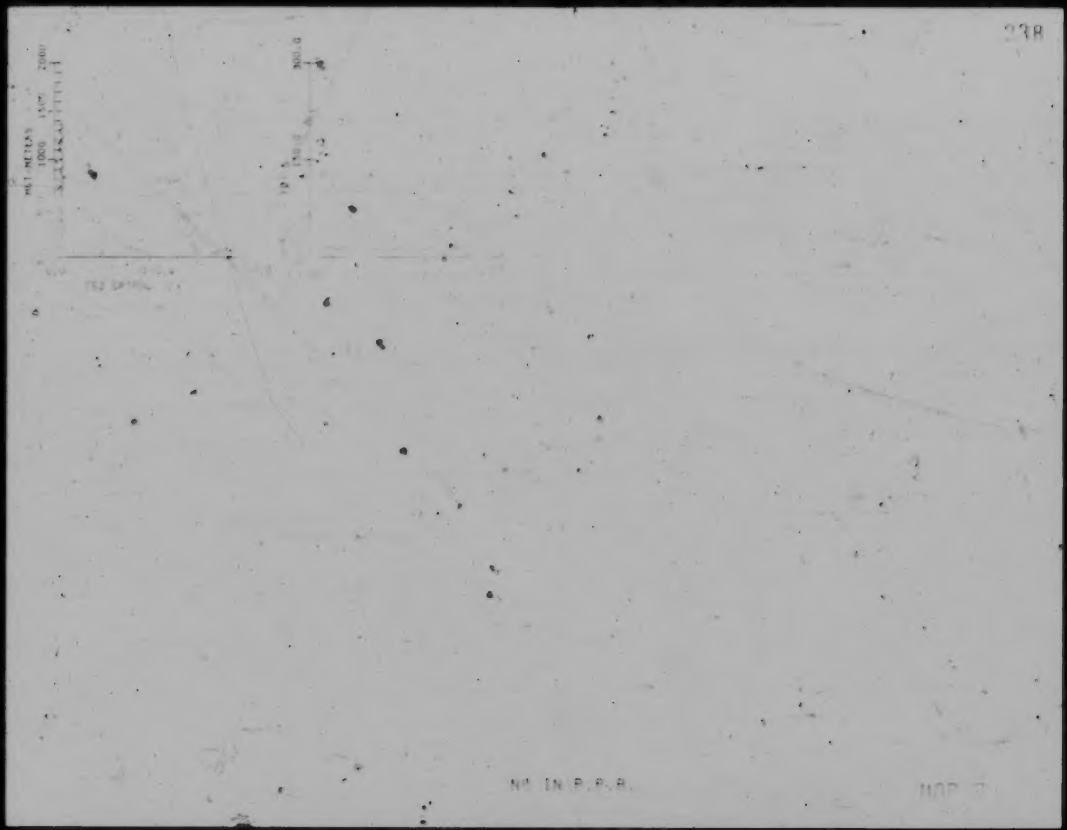
8.8


METERS
1000
1500
2000


METERS
1000
1500
2000

ASCAT IN 10^{-3} m^{-1}





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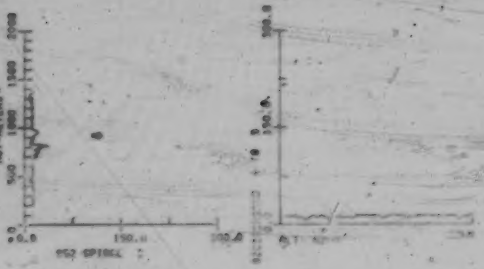

NOT IN P.P.B.

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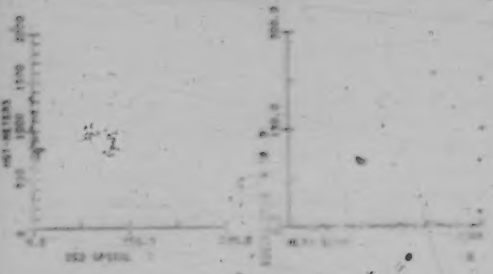
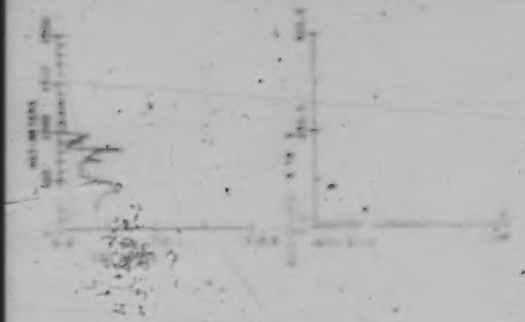
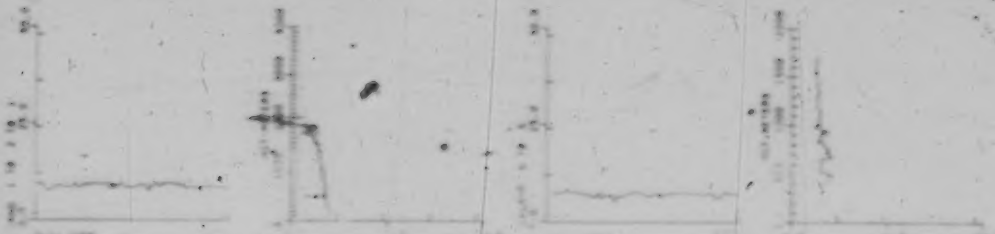




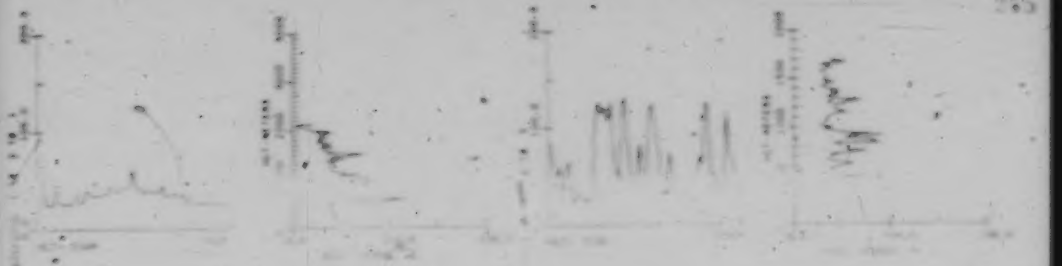
24" 10 P.P.S.

62071876

TEMP IN DEGREES C

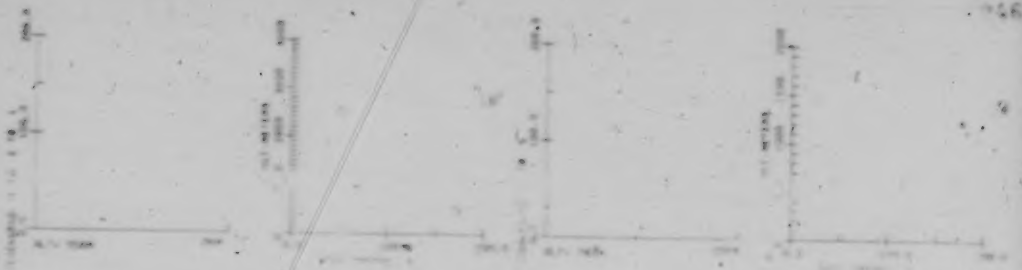


DEWPOINT IN DEGREES C



CMC in $10^{3}cm^{3}$

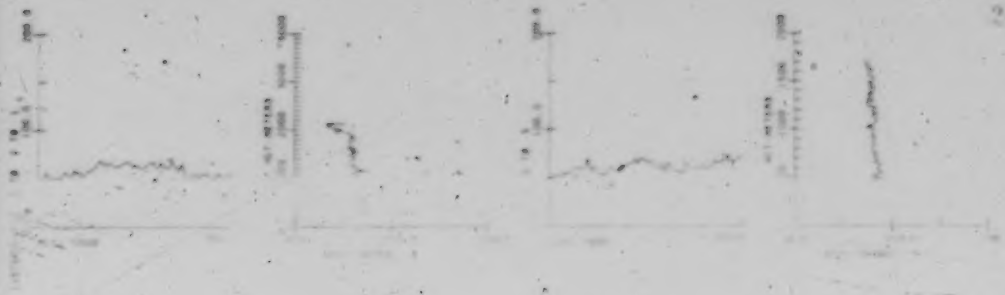
MAP 3

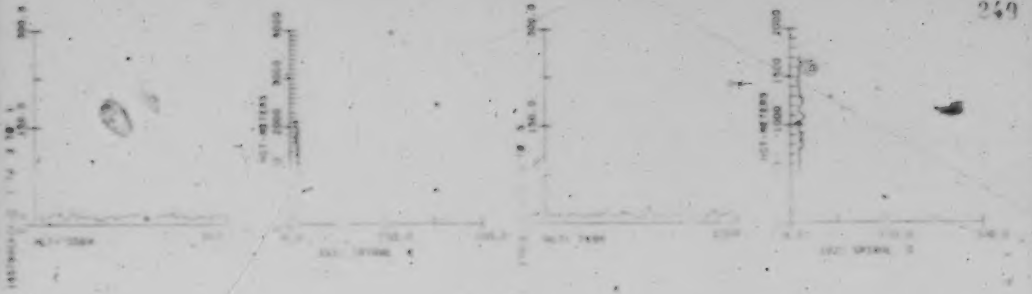


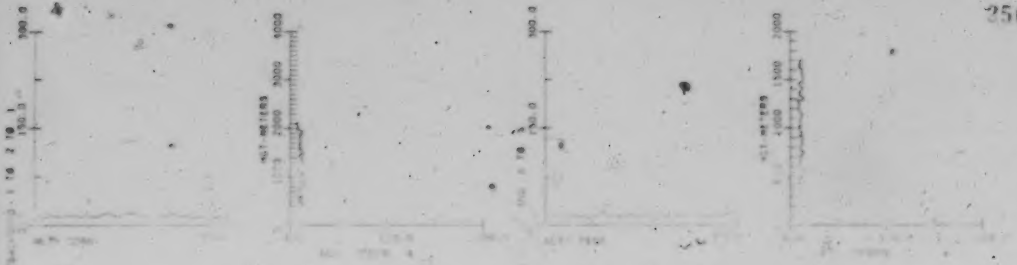
CHARGE IN MILLIVOLTS

BSCAT IN $10^{-6}m^{-1}$

MAP 8

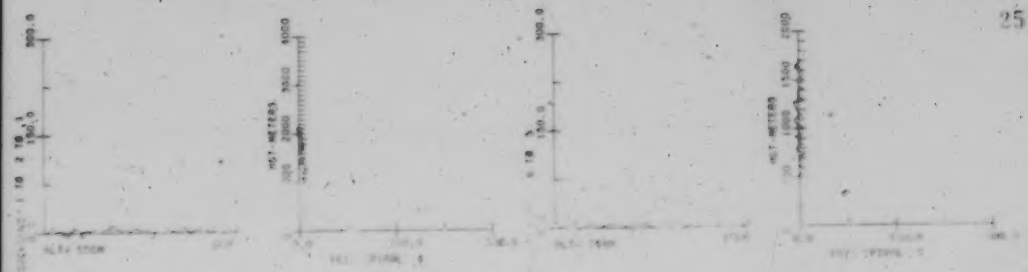






NOT IN P.P.S.

MAP 0

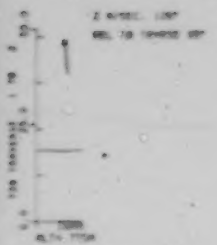


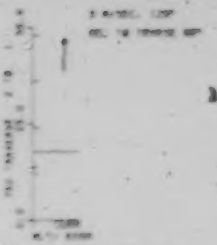
NO2 IN P.P.B.

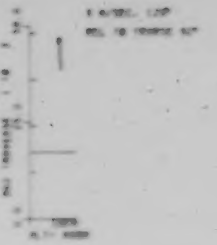
MAP B

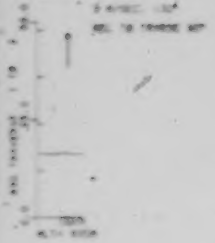
61971876

MAP 9



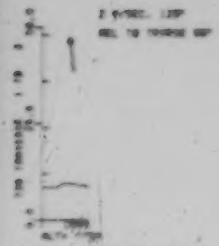


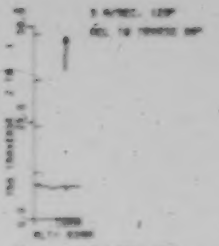


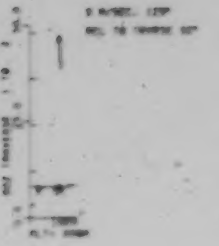


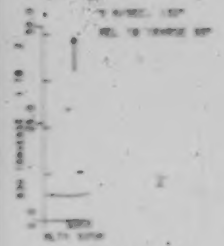
TEMP IN DEGREES C

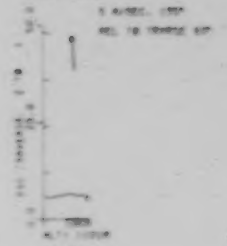
MAP 9





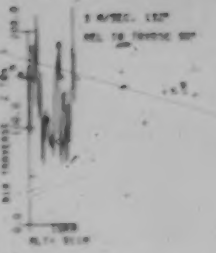


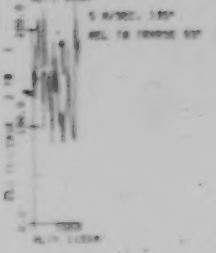




DEWPOINT IN DEGREES C

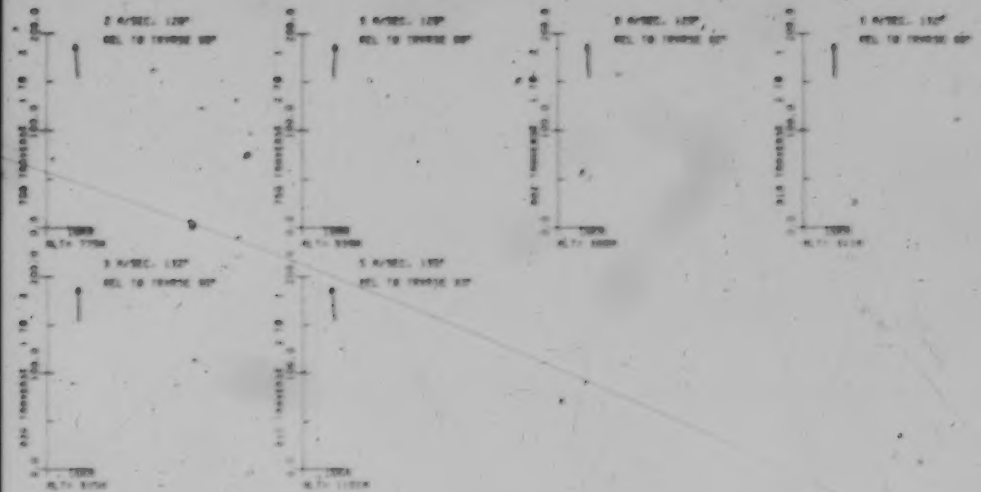
MAP 3





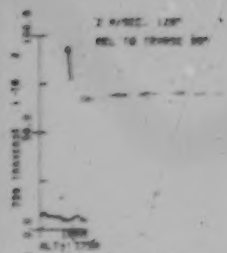
CNC IN $10^3 cm^{-3}$

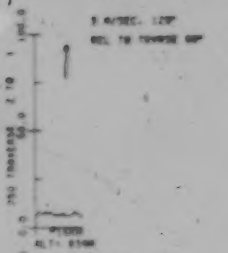
MAP 9

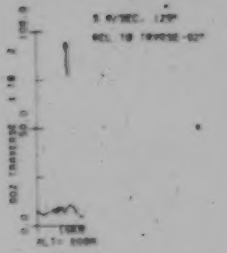


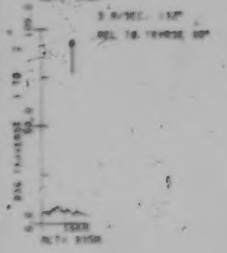
CHARGE IN MILLIVOLTS

MAP 9



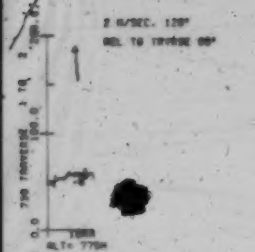


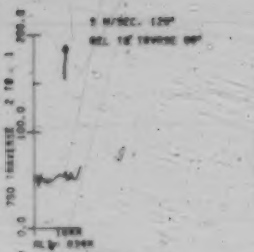


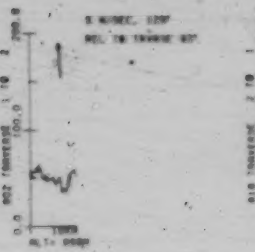


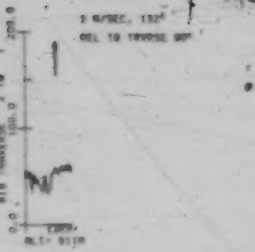
BSCAT IN $10^{-6}M^{-1}$

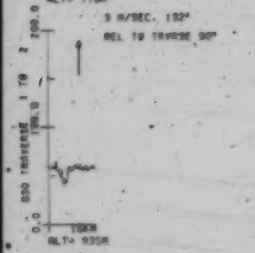
MAP 9

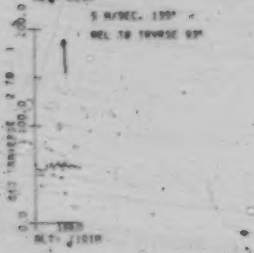






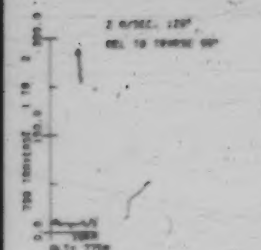


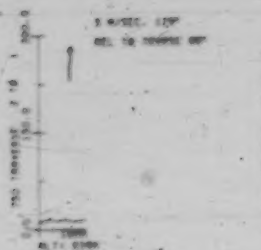


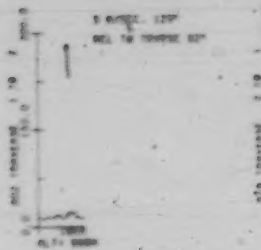


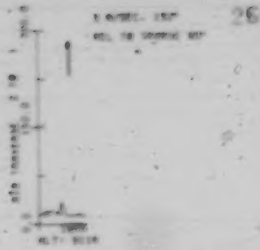
93'IN P.P.B.

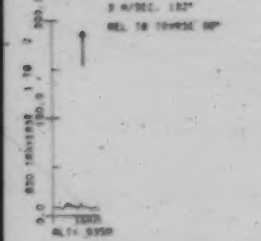
MAP 9

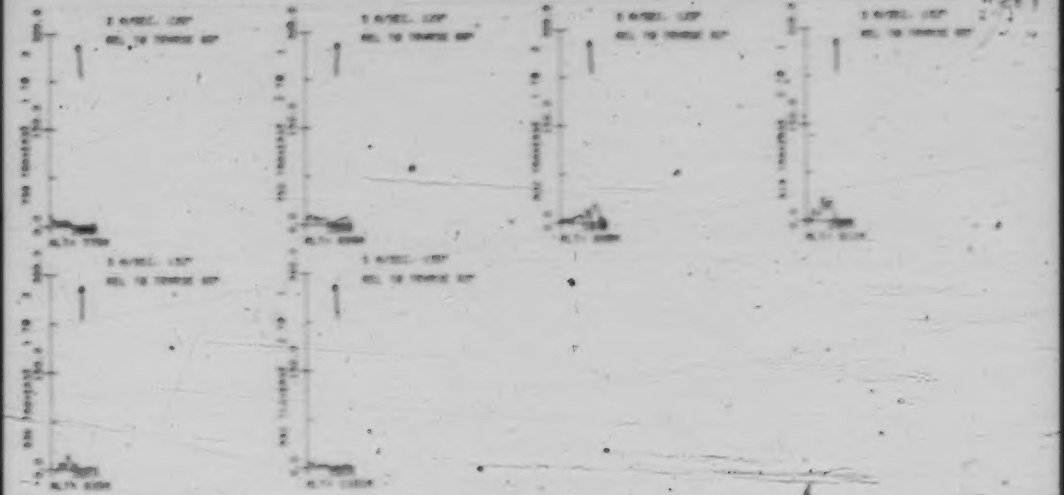


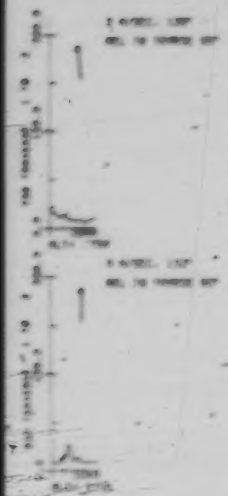


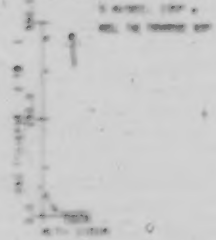






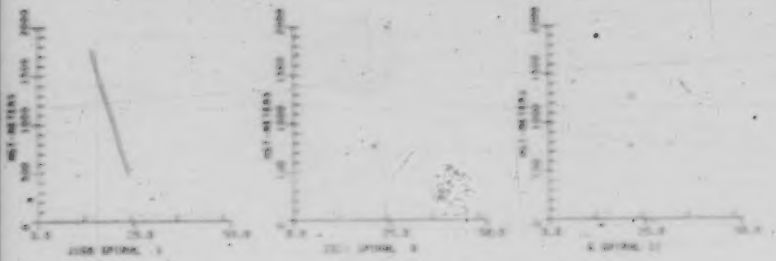






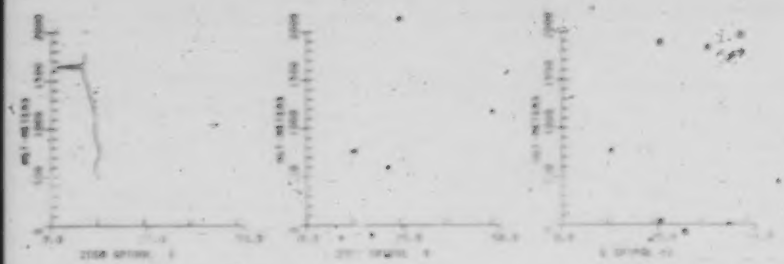
62-71876

MAP 9



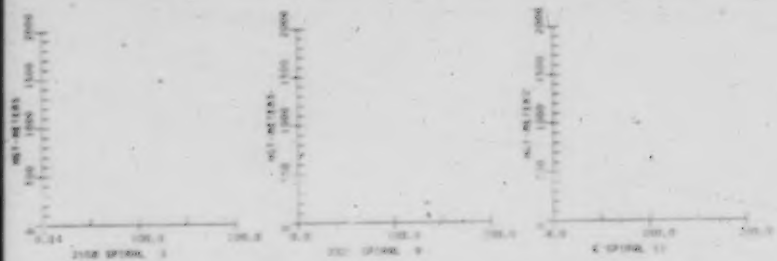
TEMP IN DEGREES C

MAP 2



DEWPOINT IN DEGREES C

MAP 3

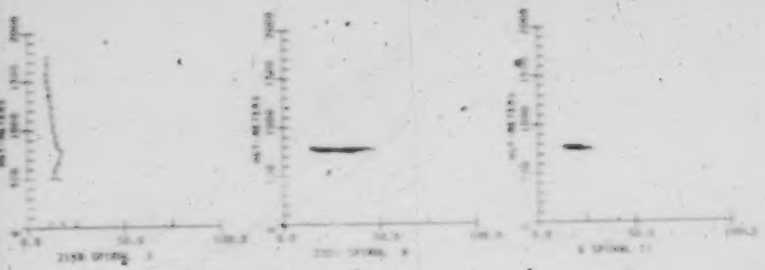


ENC IN $10^3 cm^{-1}$

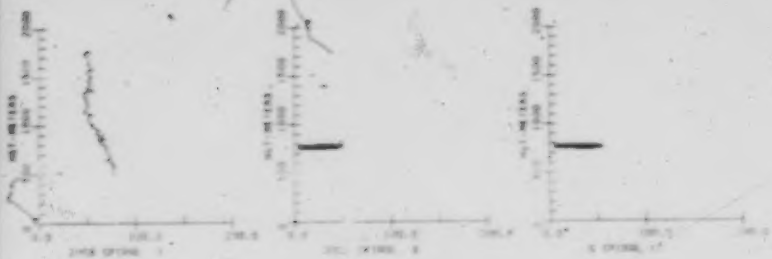
MAP 9

CHARGE IN MILLIVOLTS

MAP 9

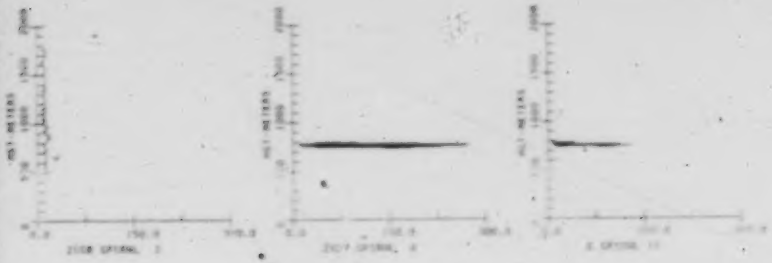


RSCAT 18.10 [illegible] ... HOP 0



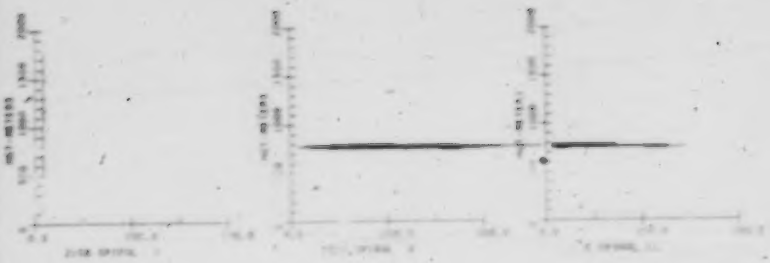
81 IN P.P.B.

MAP 3



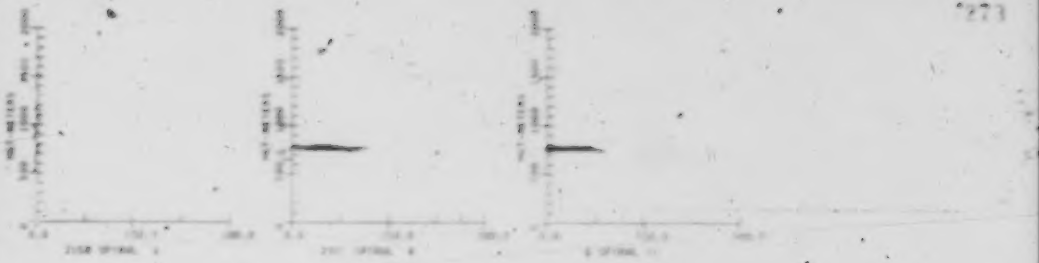
NO IN P.P.B.

MAP 9



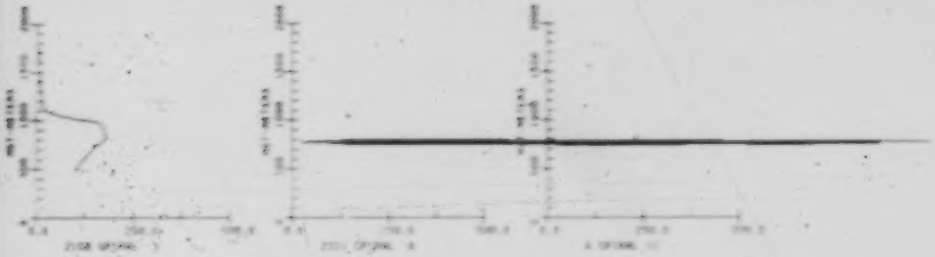
not in P.P.B.

MAP 3



NBI IN P.P.B.

MAP 9.

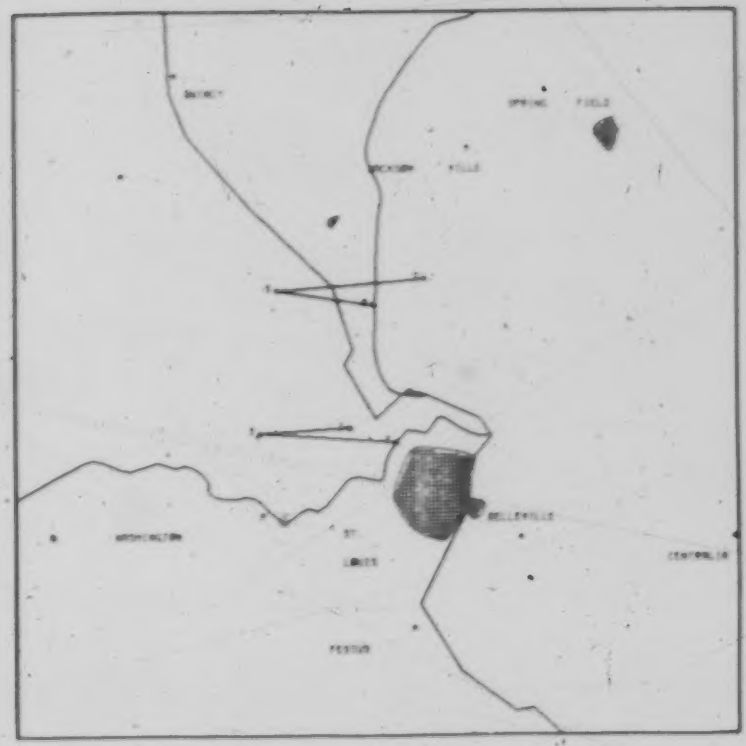


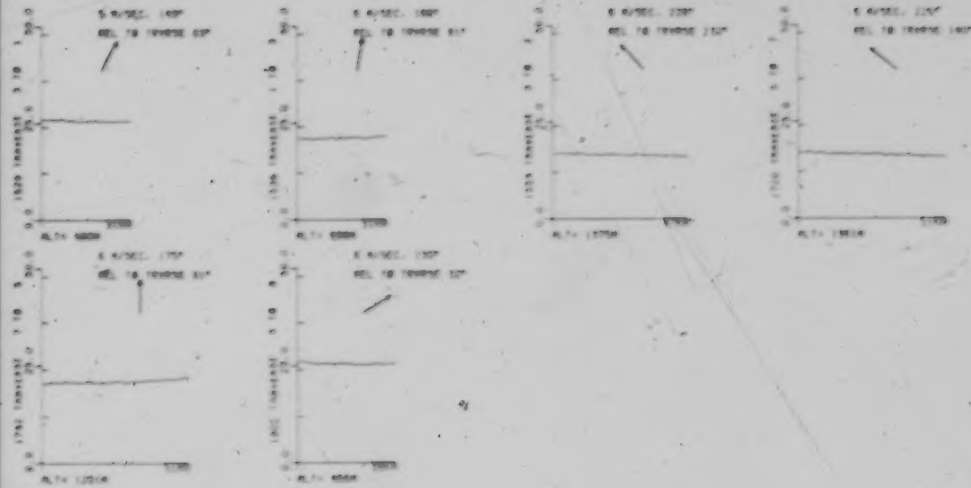
SECTION P.P.B.

MAP 9

62071876

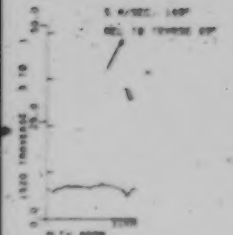
MAP 10

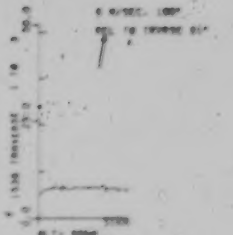


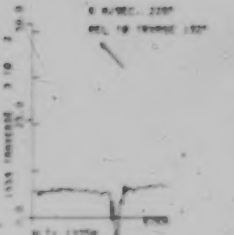


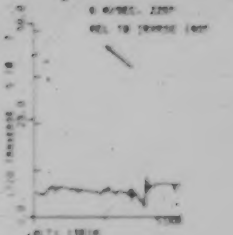
TEMP IN DEGREES C

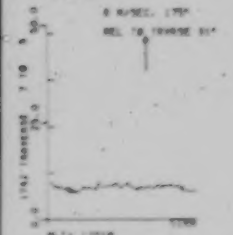
MRP, 10

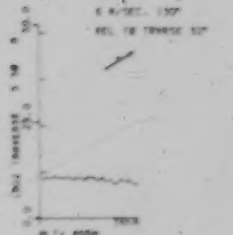






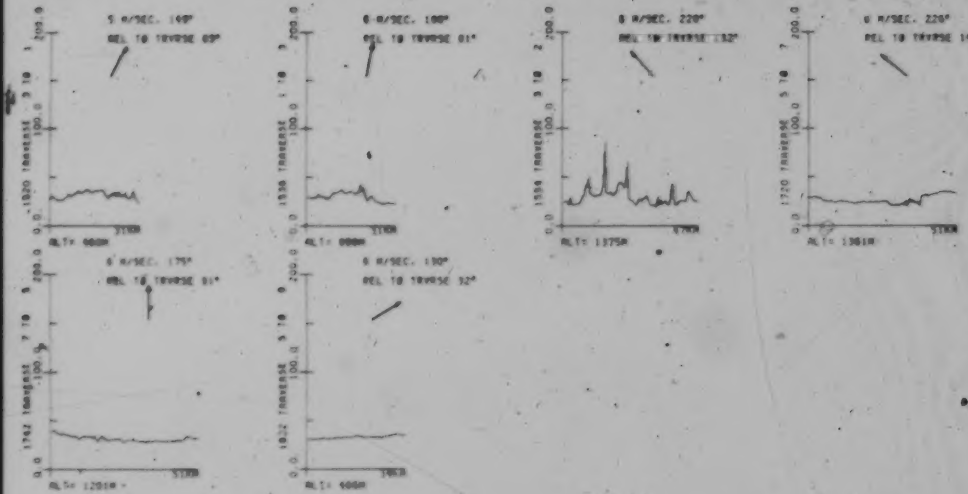






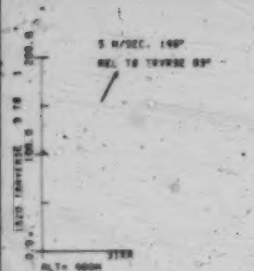
DEWPOINT IN DEGREES C

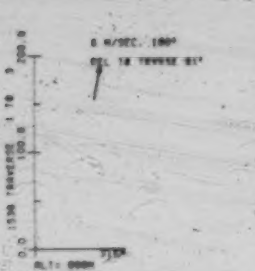
MAP 10

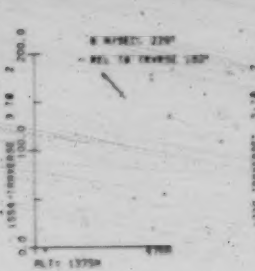


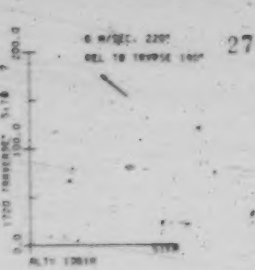
CNC IN $10^3 CM^{-3}$

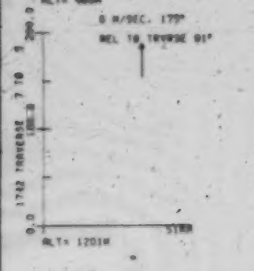
MAP 10

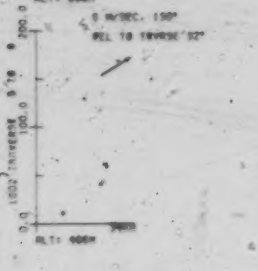






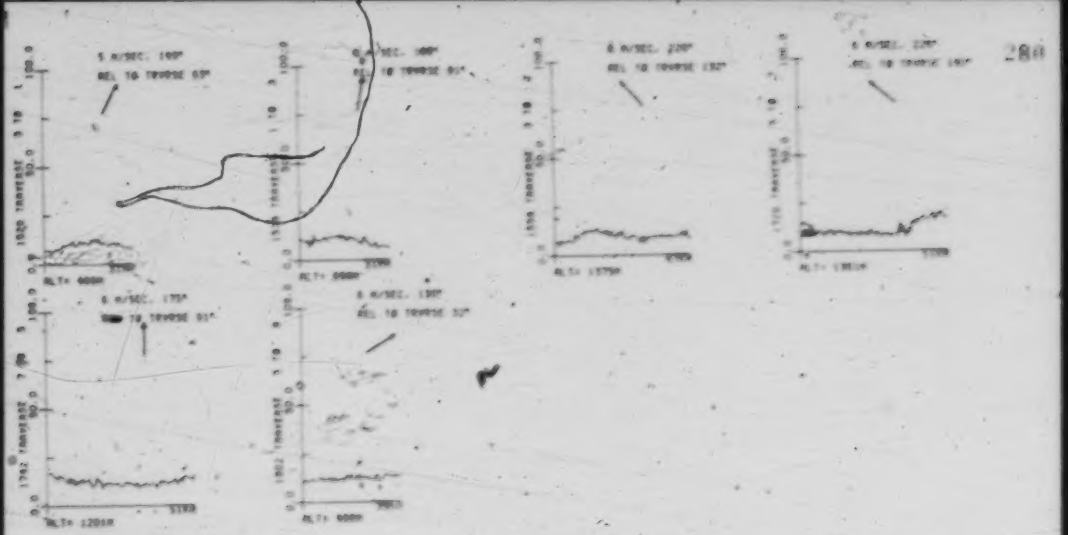






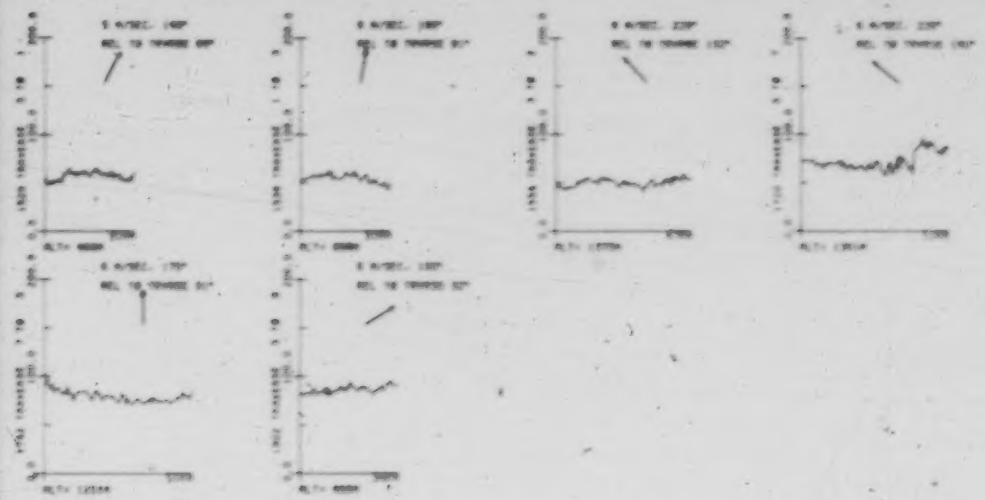
CHARGE IN MILLIVOLTS

MAP 10



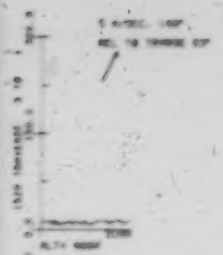
BSCAT IN $10^{-6}m^{-1}$

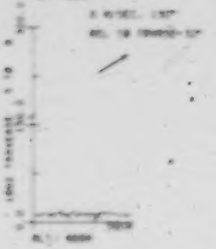
MAP 10

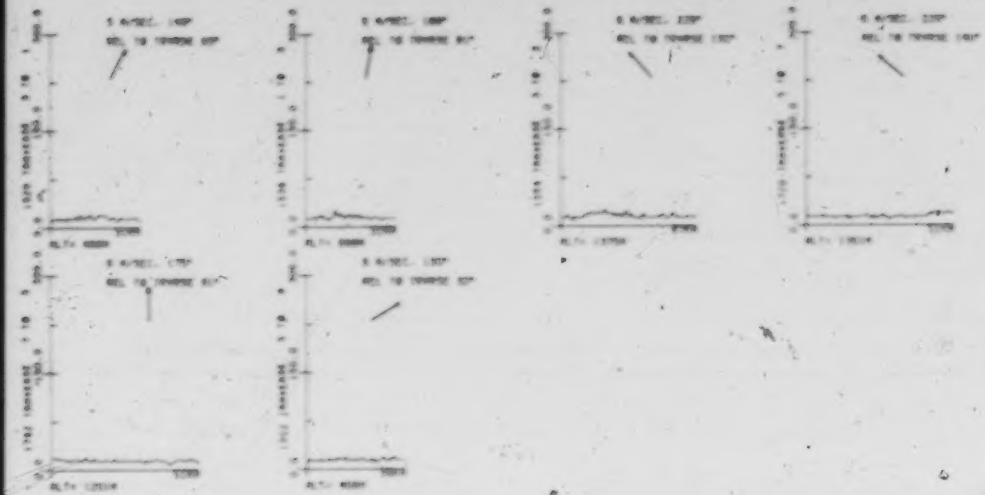


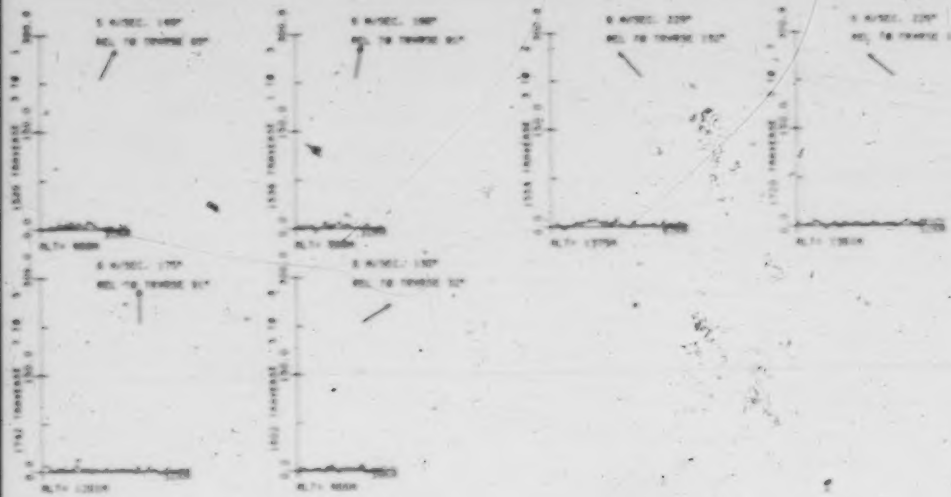
82 IN P.P.B.

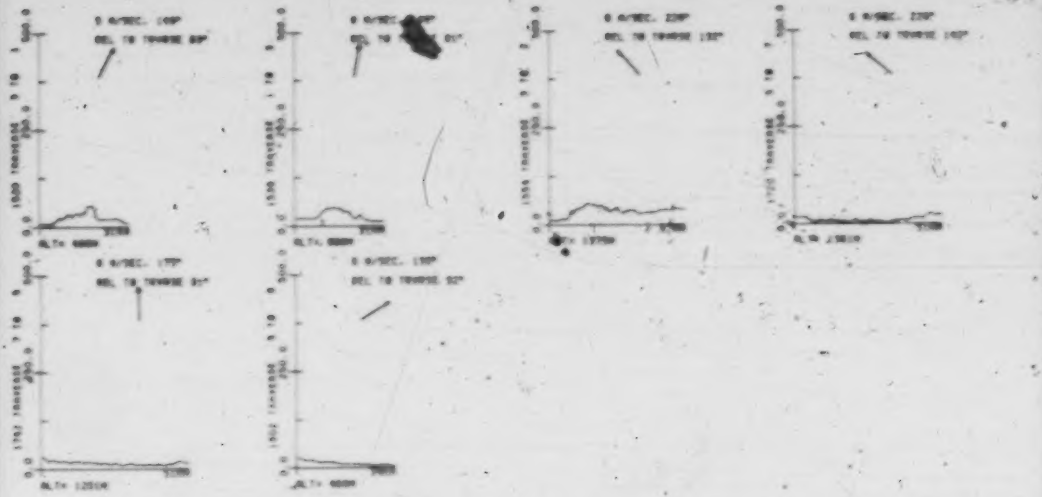
MAP 10











SO2 IN P.P.B.

MAP 18

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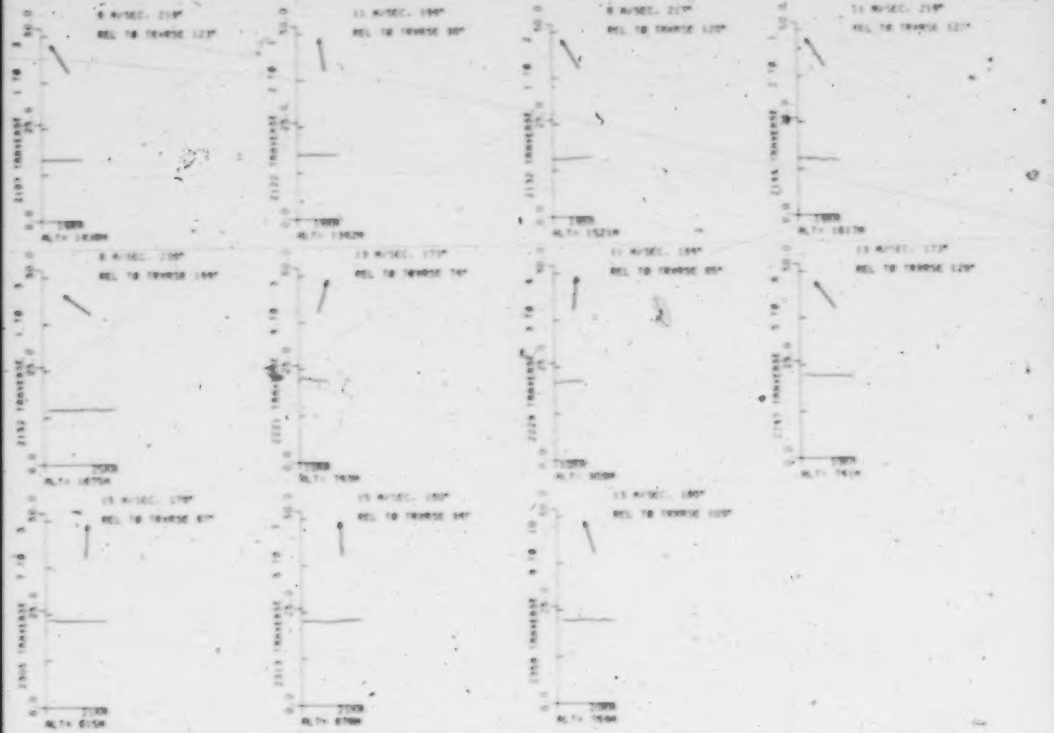
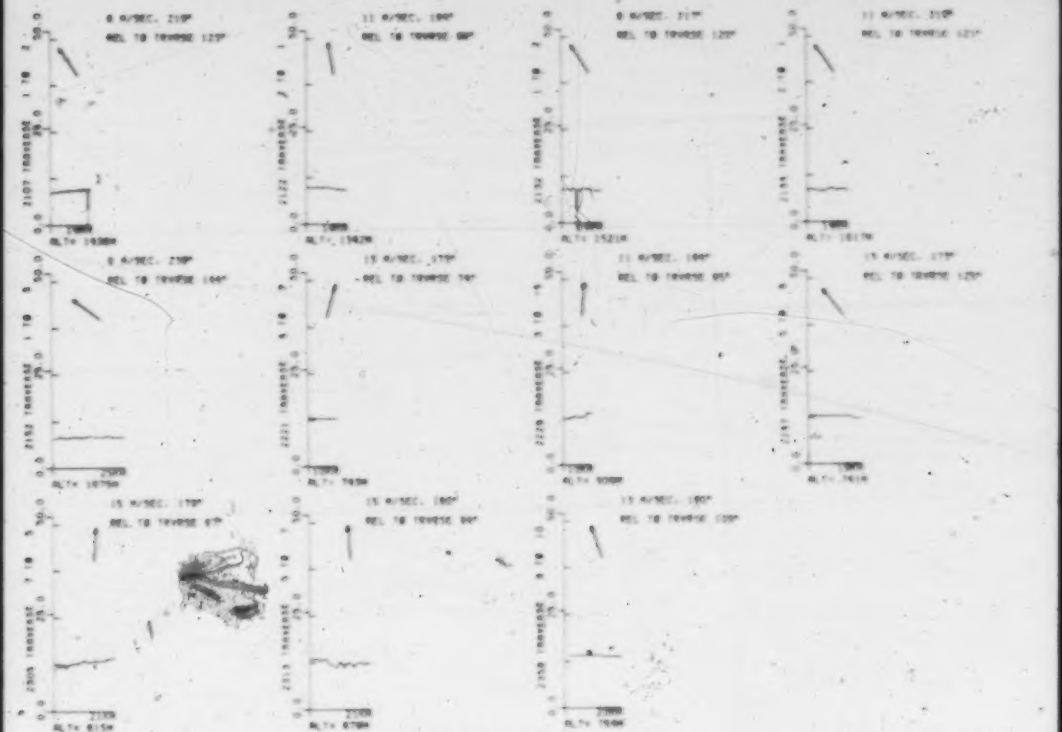


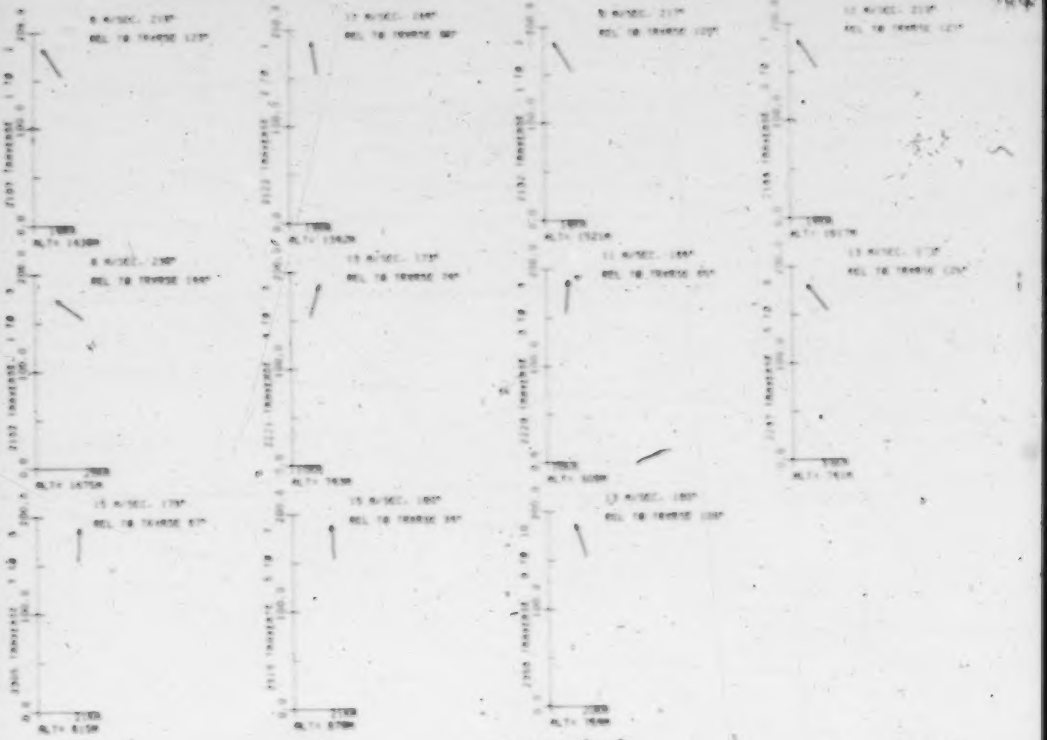
TEMP IN DEGREES C

MAP 11



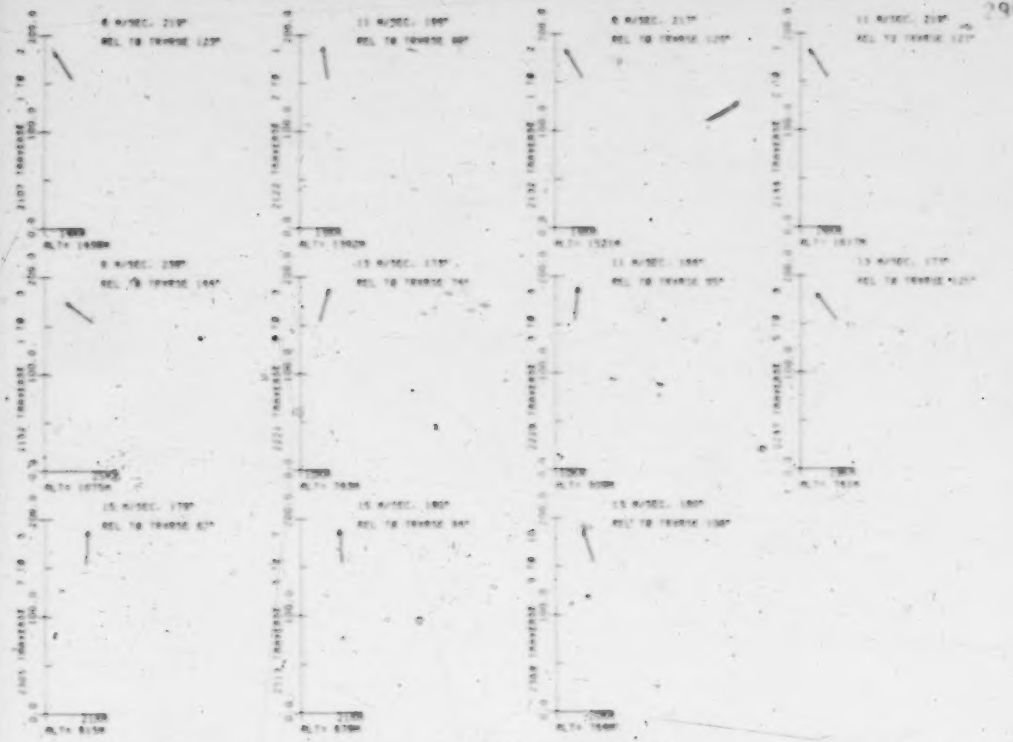
DEWPOINT IN DEGREES C

MAP 11



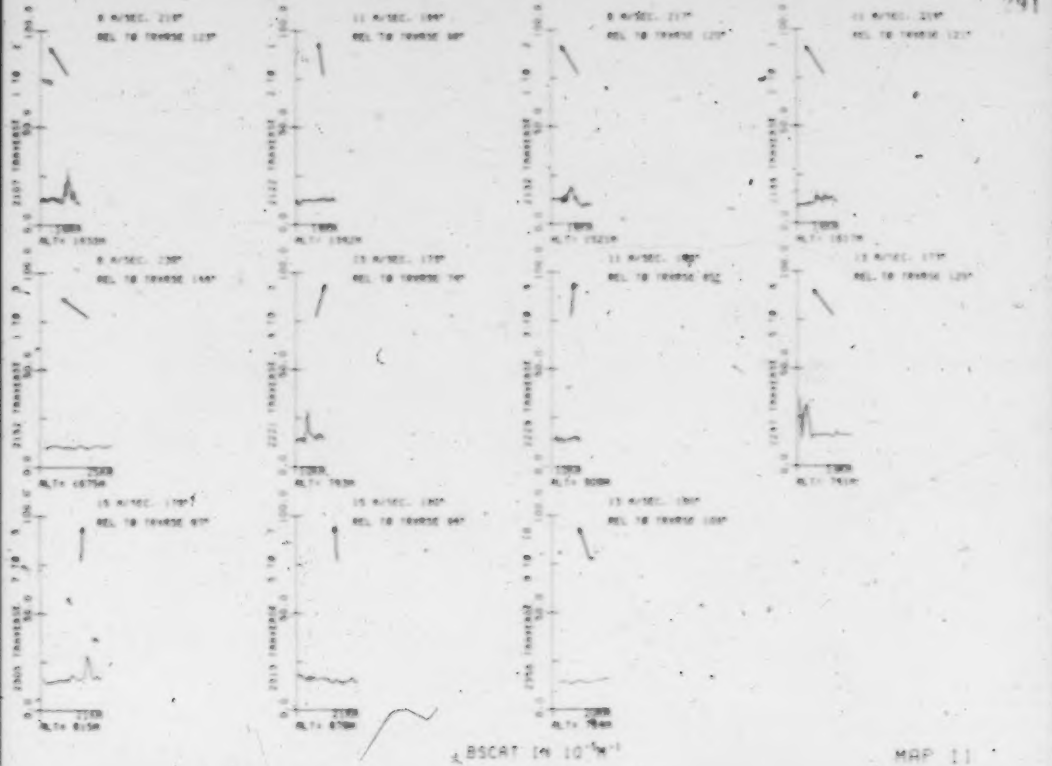
CNC IN $10^3 cm^{-3}$

MAP 11



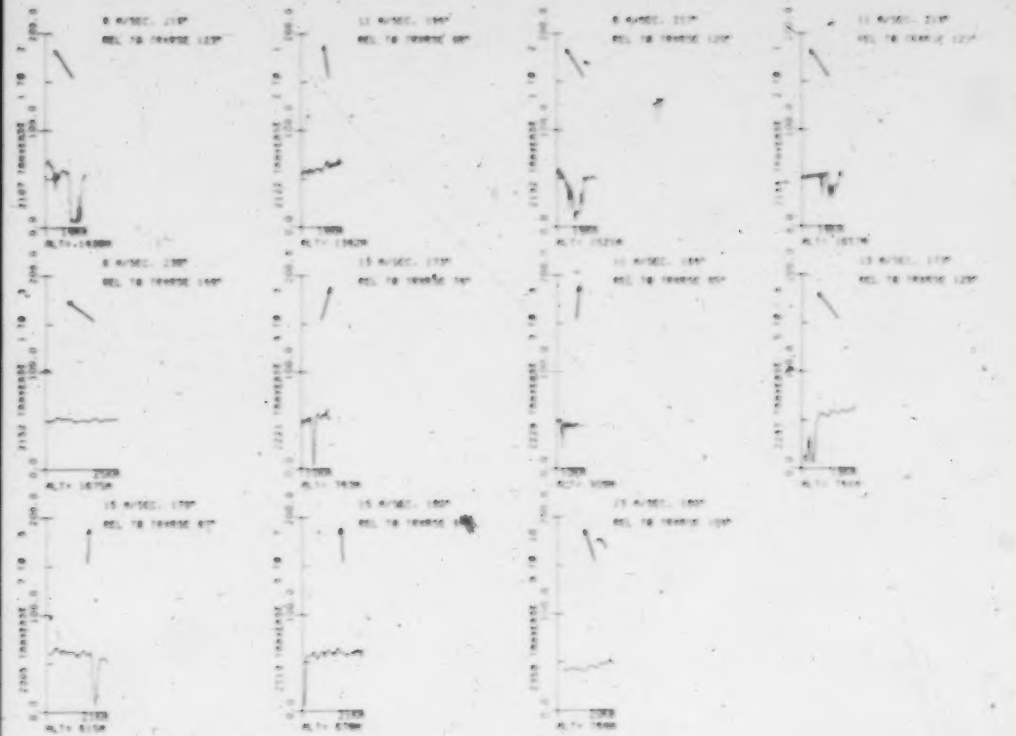
CHARGE IN MILLIVOLTS

MAP 11

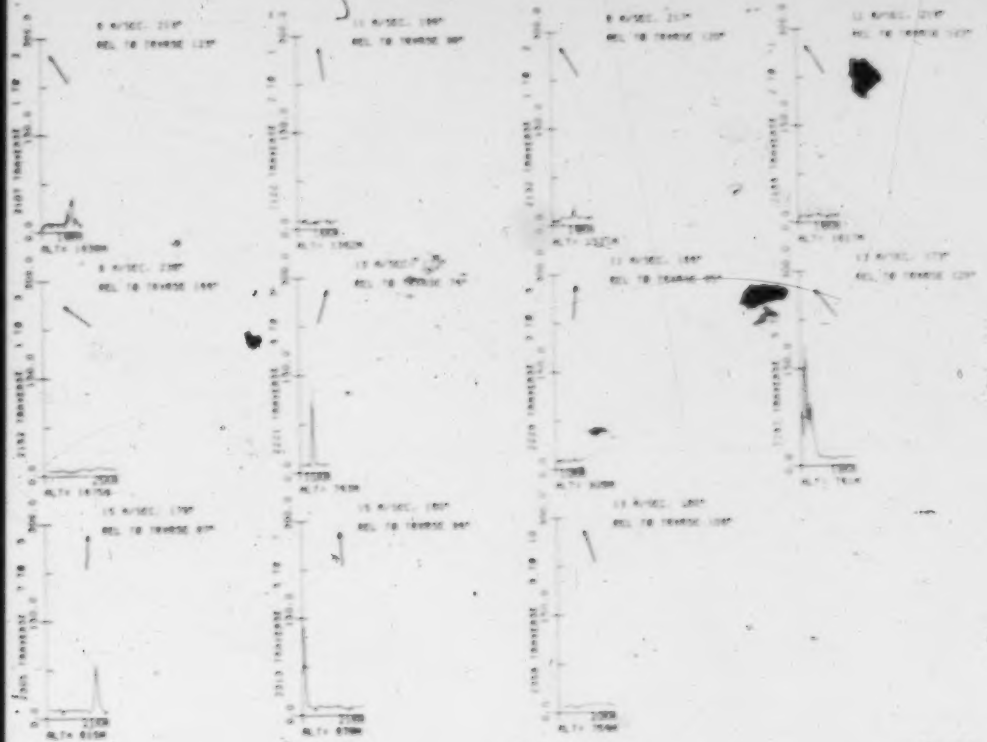


BSCAT [IN $10^{-3}m^{-1}$]

MAP 11

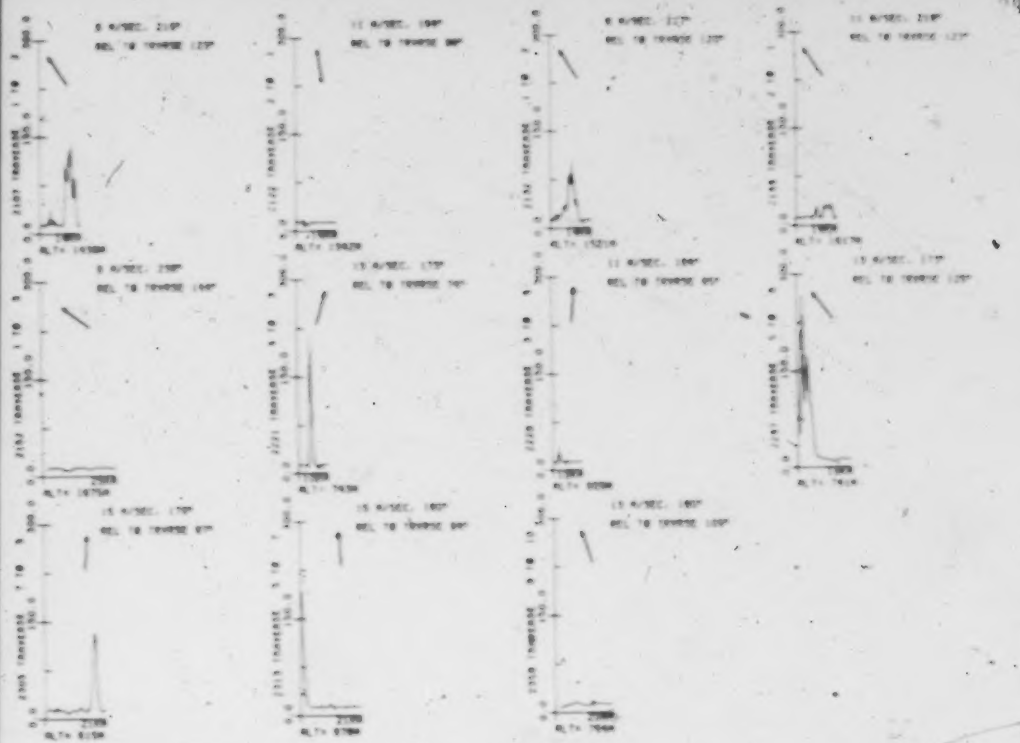


03 IN P.P.B.

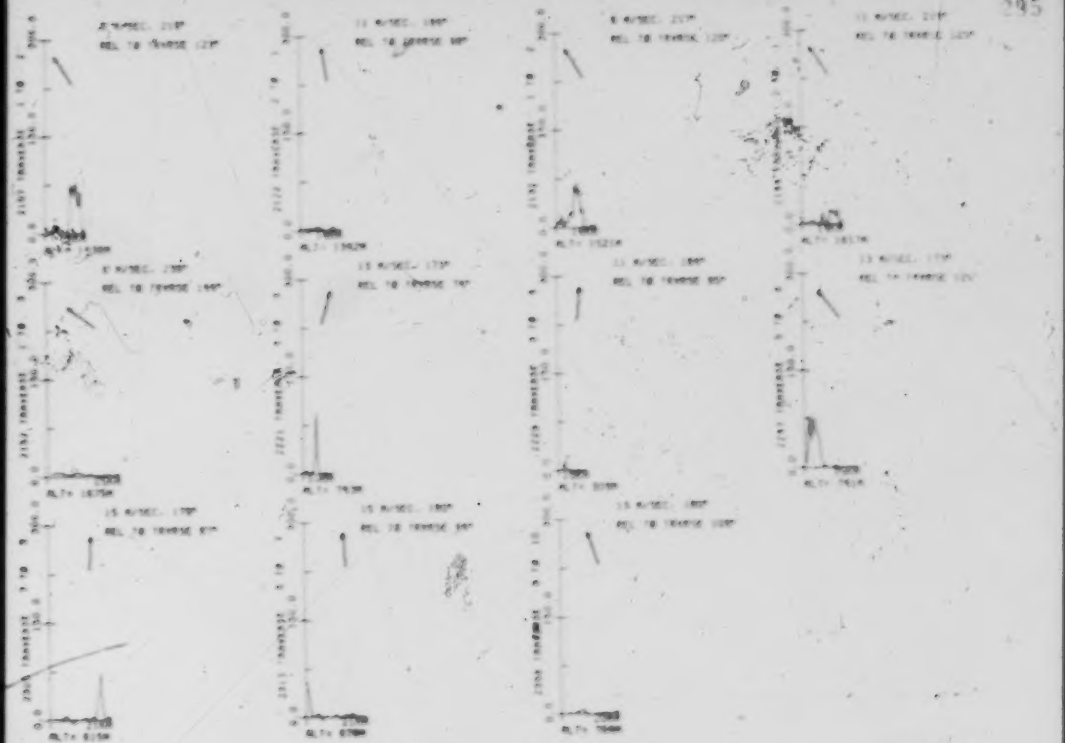


NB IN P.P.B.

MAP 11

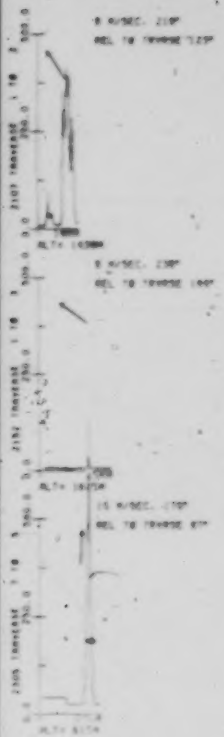


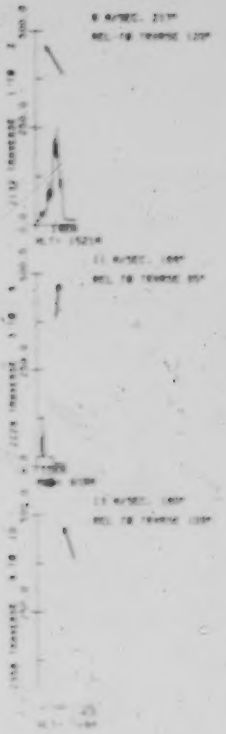
NOX (% P.P.B.

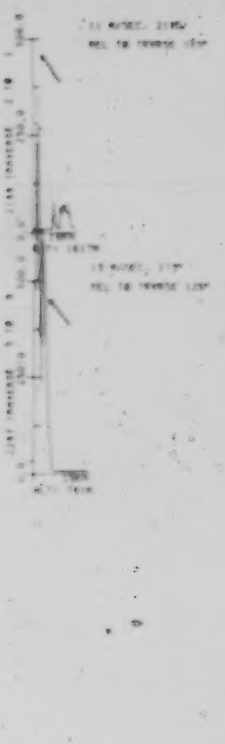


NO2 IN P.P.B.

MAP







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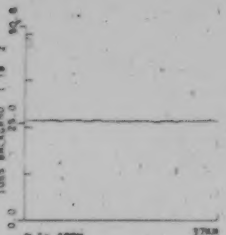
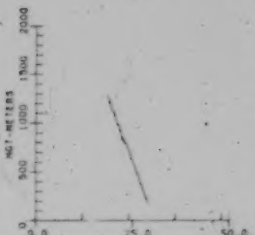
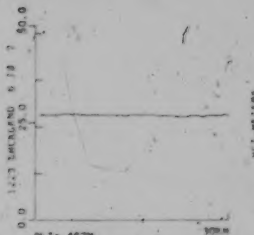
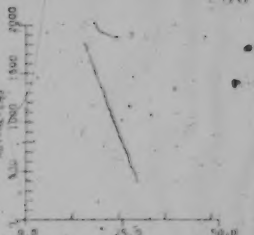
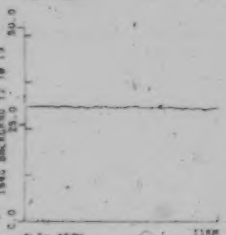
MAP 10

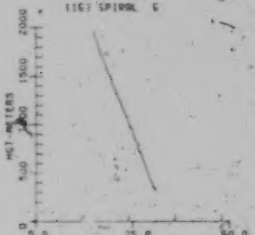


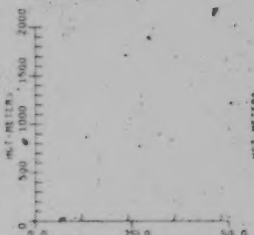


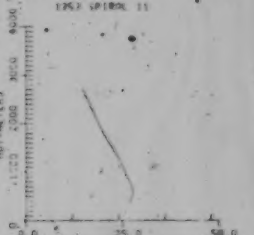


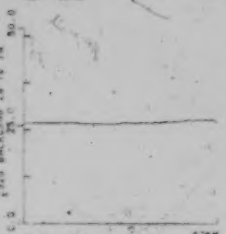


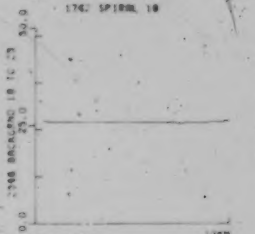


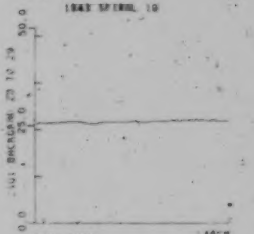






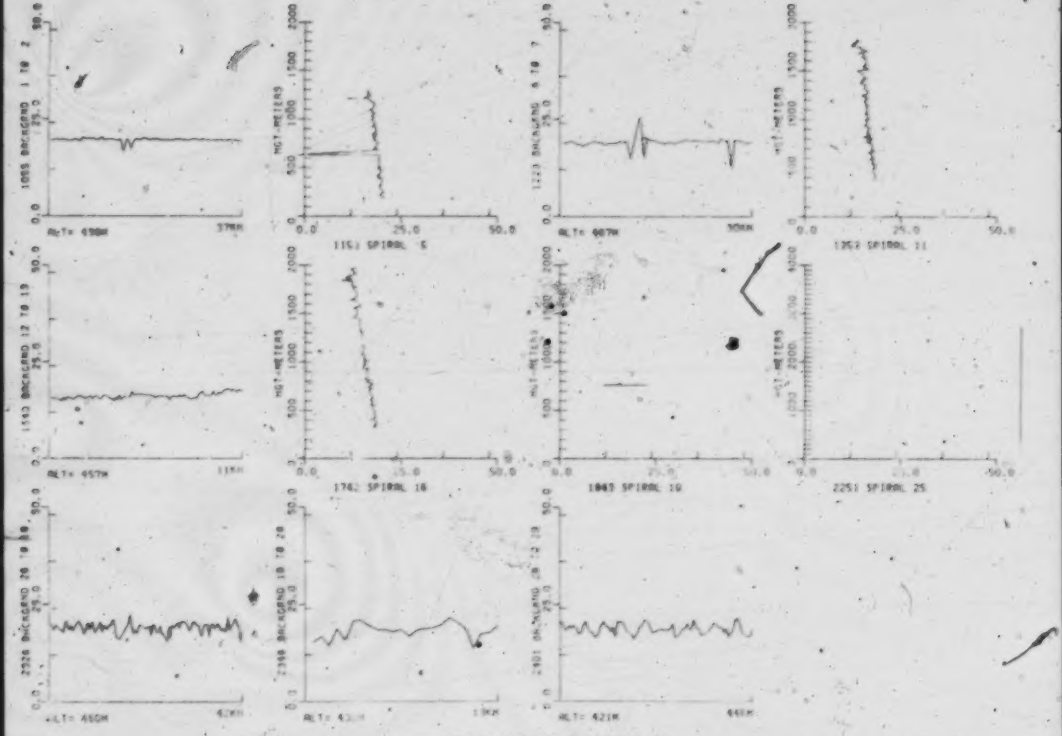


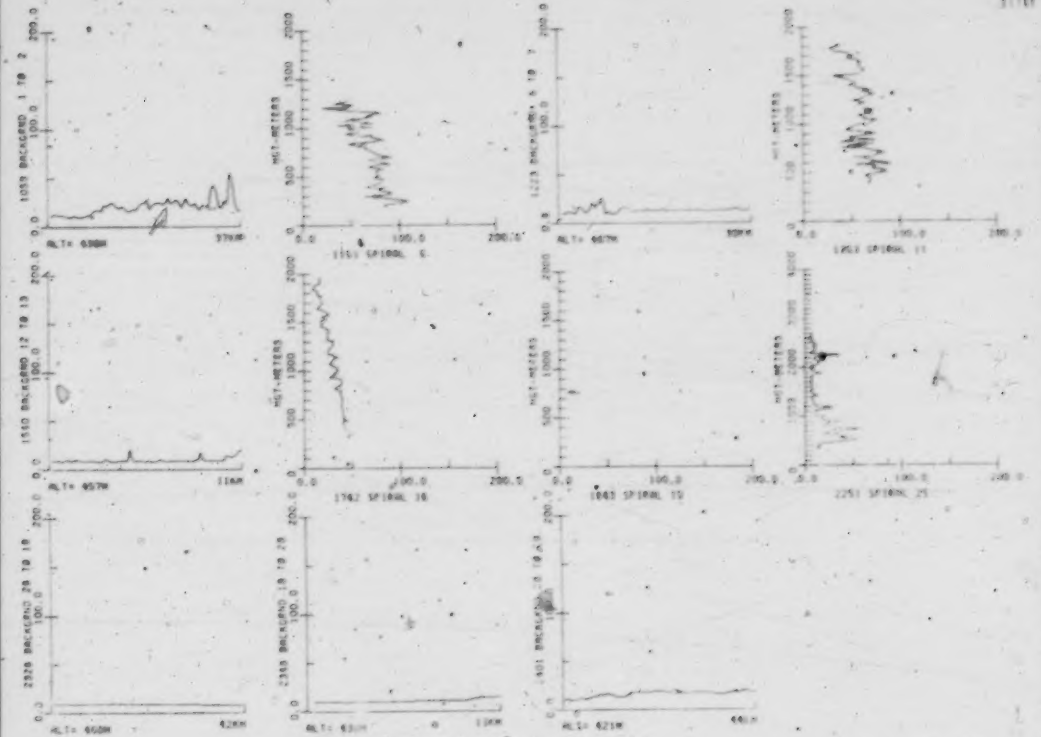




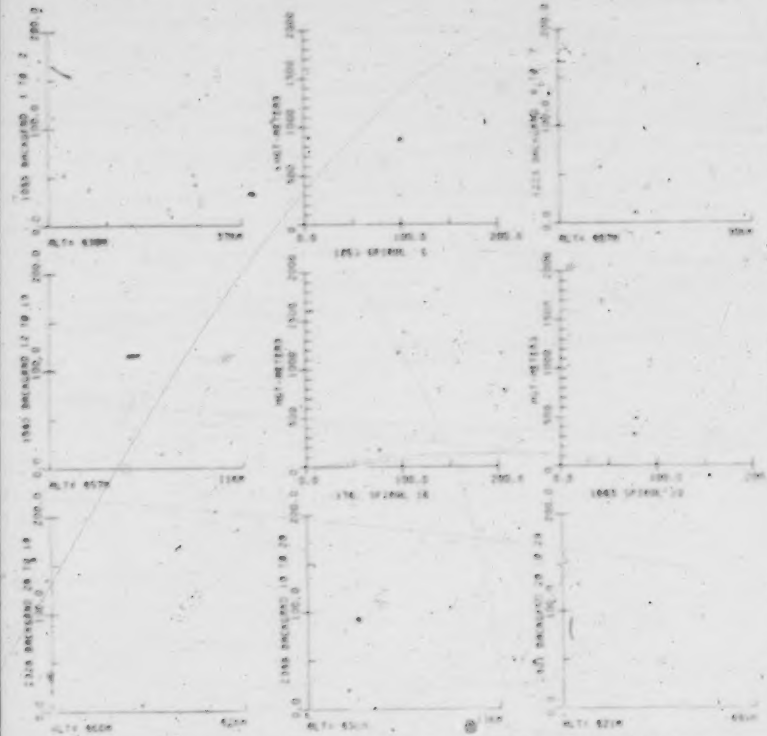
TEMP IN DEGREES C

MAP 1


1115 SPIRAL 5
1362 SPIRAL 11
1742 SPIRAL 18
1843 SPIRAL 19
2251 SPIRAL 25
DEWPOINT IN DEGREES C
MAP 10

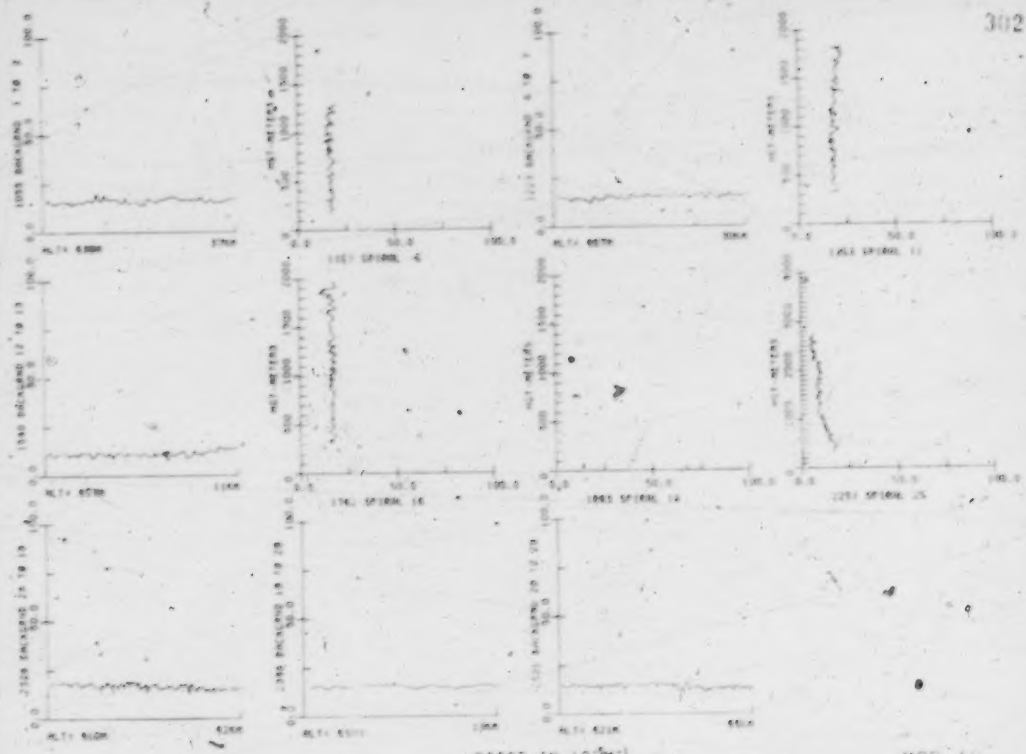

1053 BACKGRND 1 TO 2
ALT= 930M
370M
1151 SPIRAL 5
1229 BACKGRND 5 TO 7
ALT= 665M
80M
1451 SPIRAL 11
1550 BACKGRND 12 TO 13
ALT= 957M
116M
1742 SPIRAL 16
1843 SPIRAL 19
2251 SPIRAL 25
2326 BACKGRND 20 TO 18
ALT= 660M
428M
2369 BACKGRND 18 TO 20
ALT= 631M
136M
2401 BACKGRND 20 TO 23
ALT= 621M
441M
HGT-METERS
CNC IN $10^3 CM^{-3}$

MAY 15



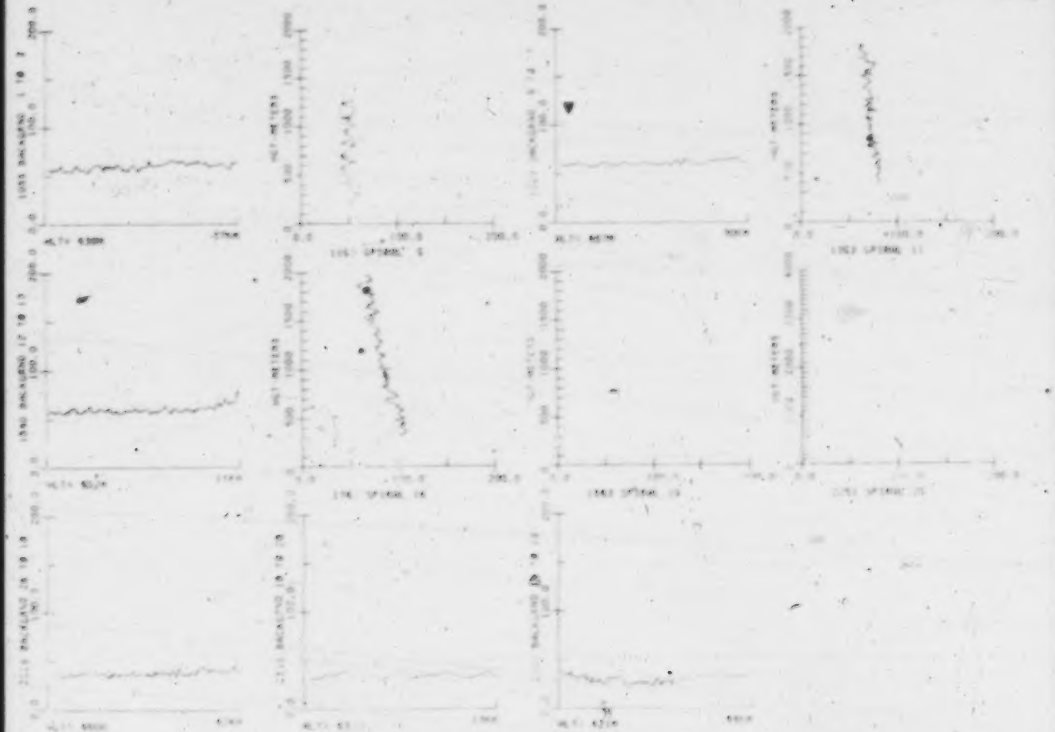
CHARGE IN MILLIVOLTS

MAP 10

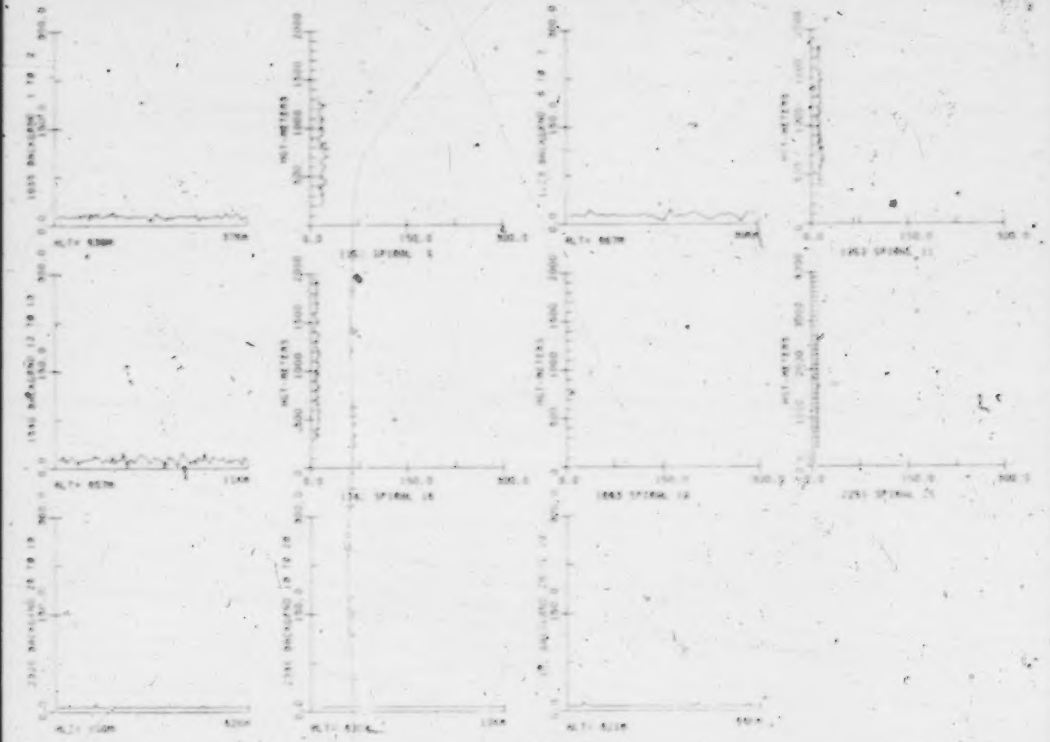


BSCAT IN $10^{-6}m^{-1}$

MAP 10

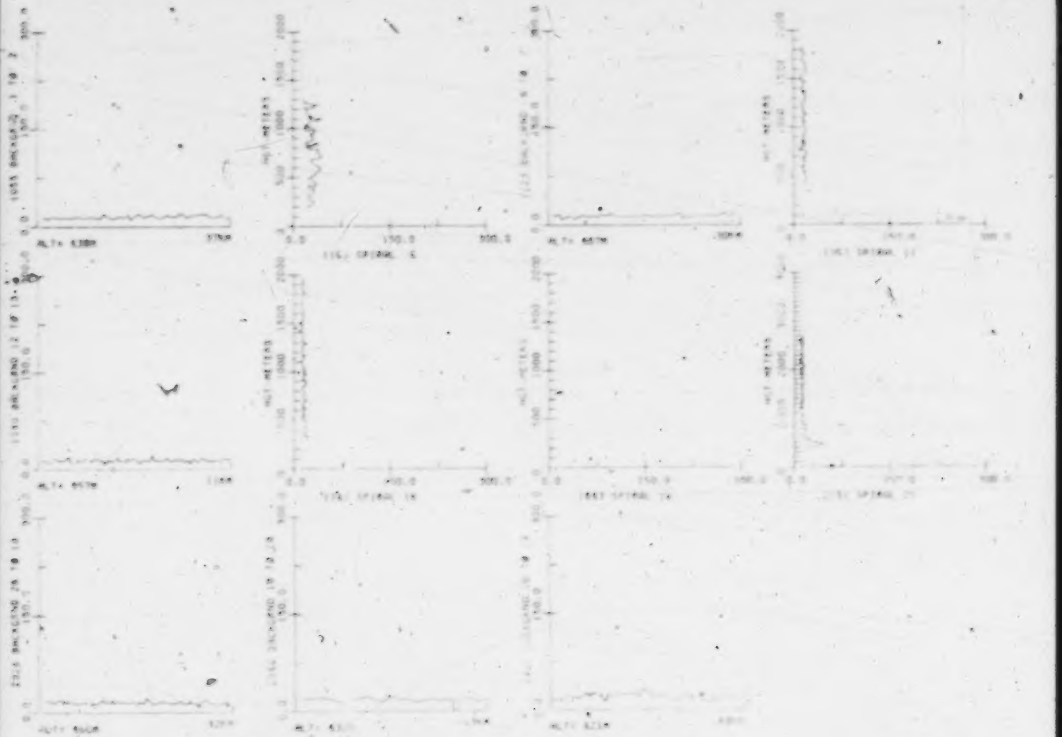


AS IN P.P.B.

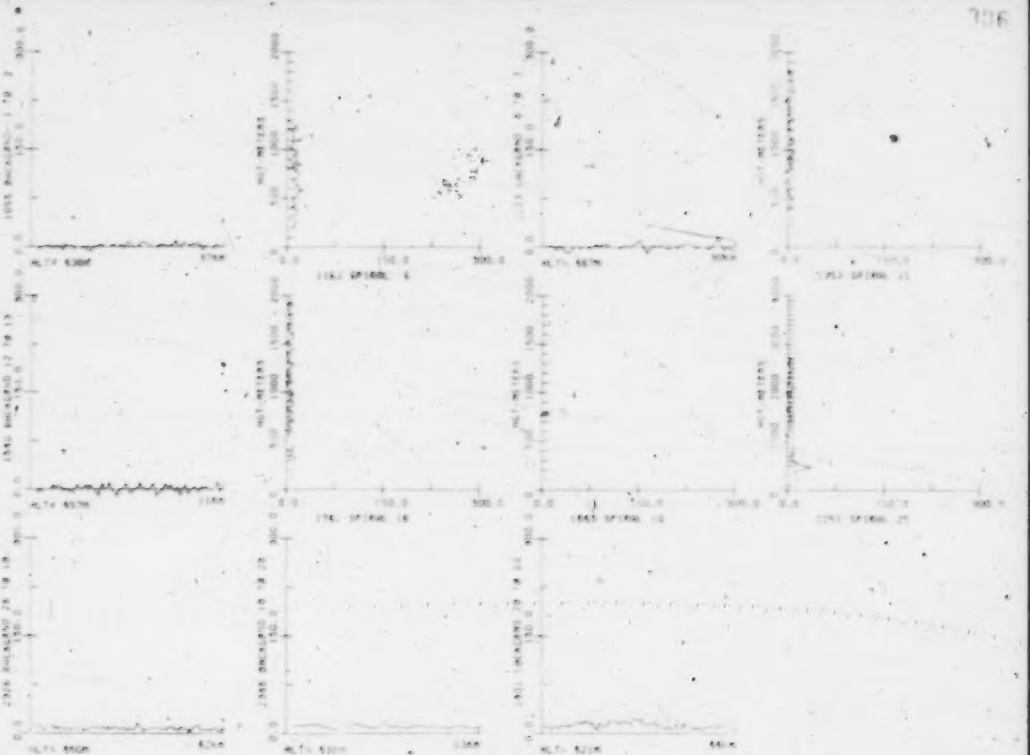


NP IN P.P.B.

MAP 10

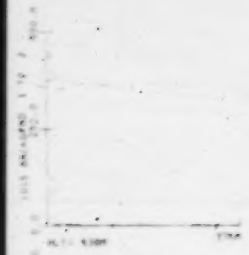


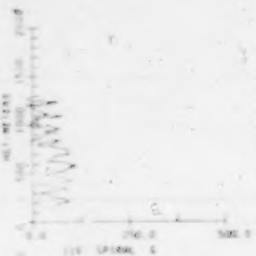
NOT IN P.P.B.

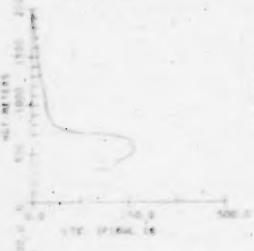


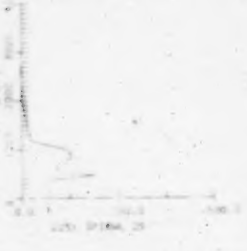
NOT IN P.P.B.

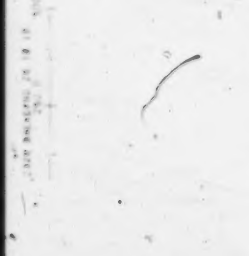
MAP 1











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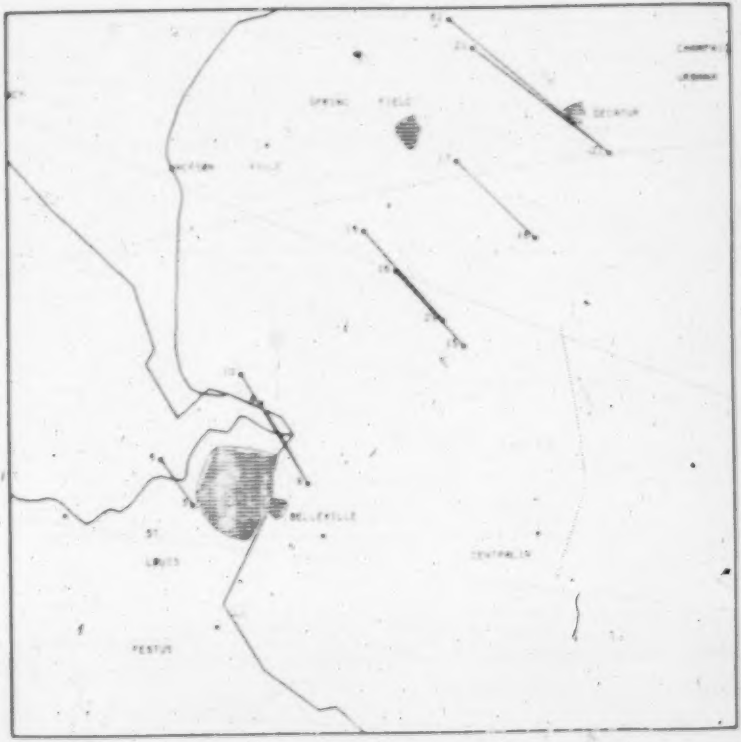
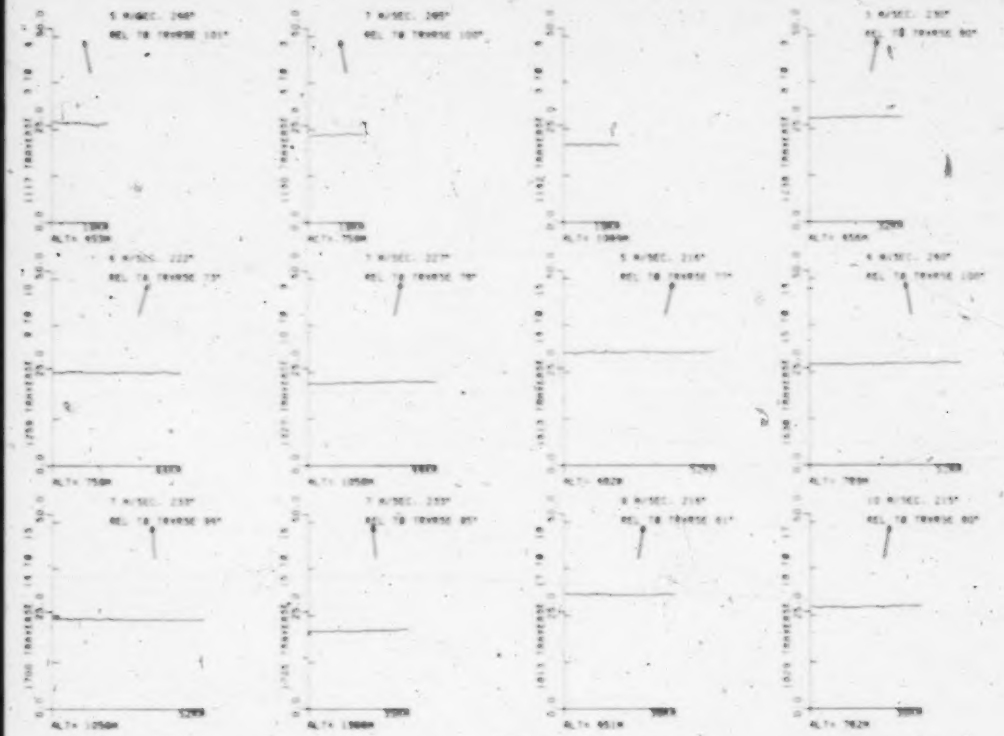
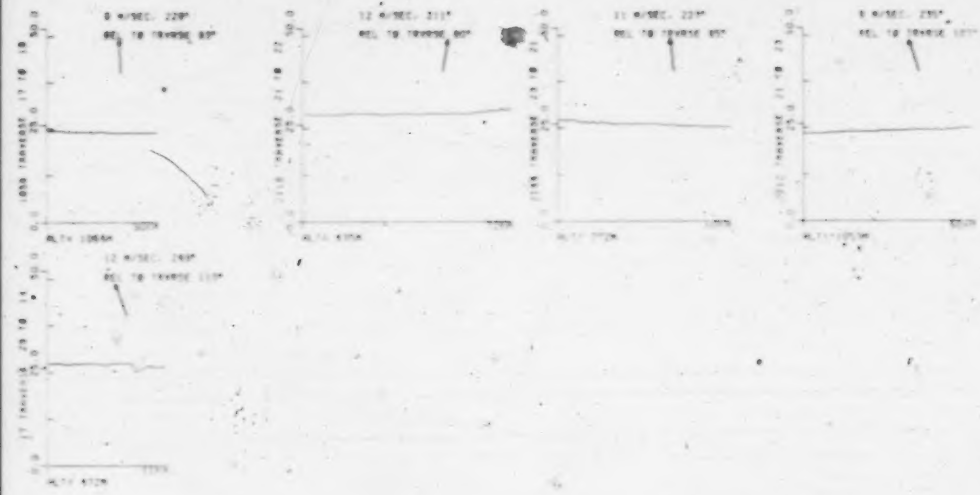
MAP 12





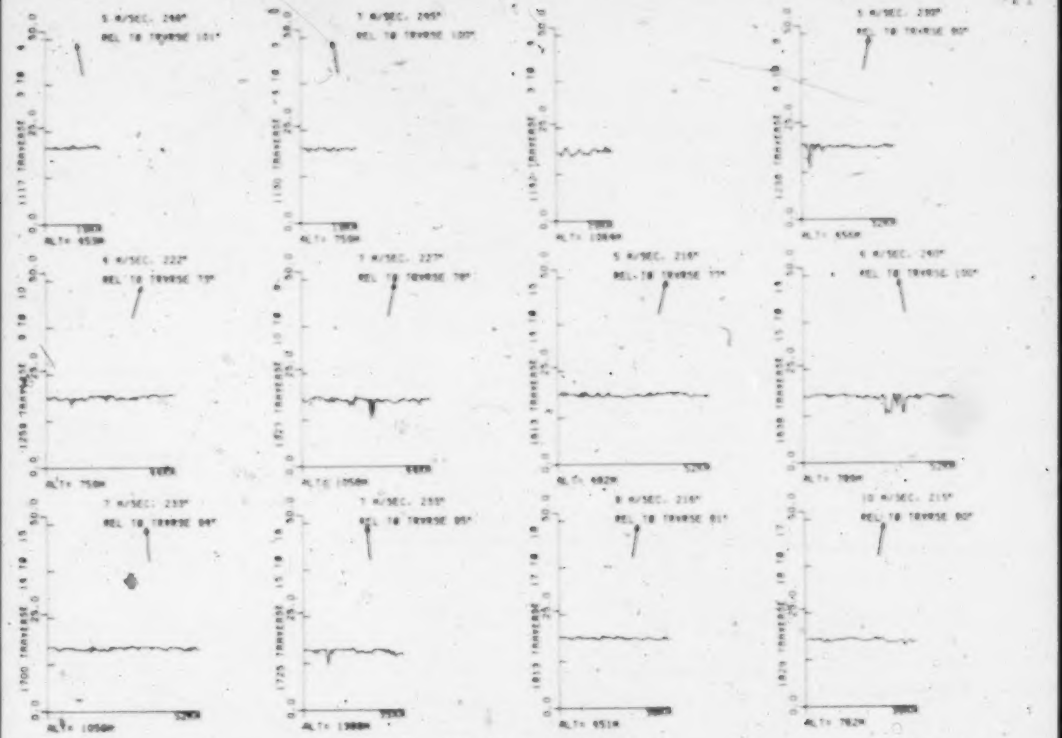
TEMP IN DEGREES C

MAP 12



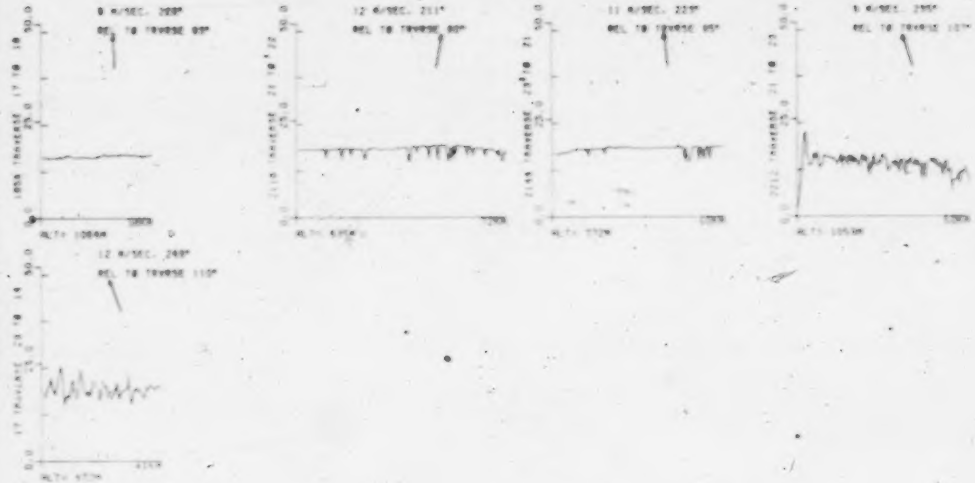
TEMP IN DEGREES°C

MAP 1



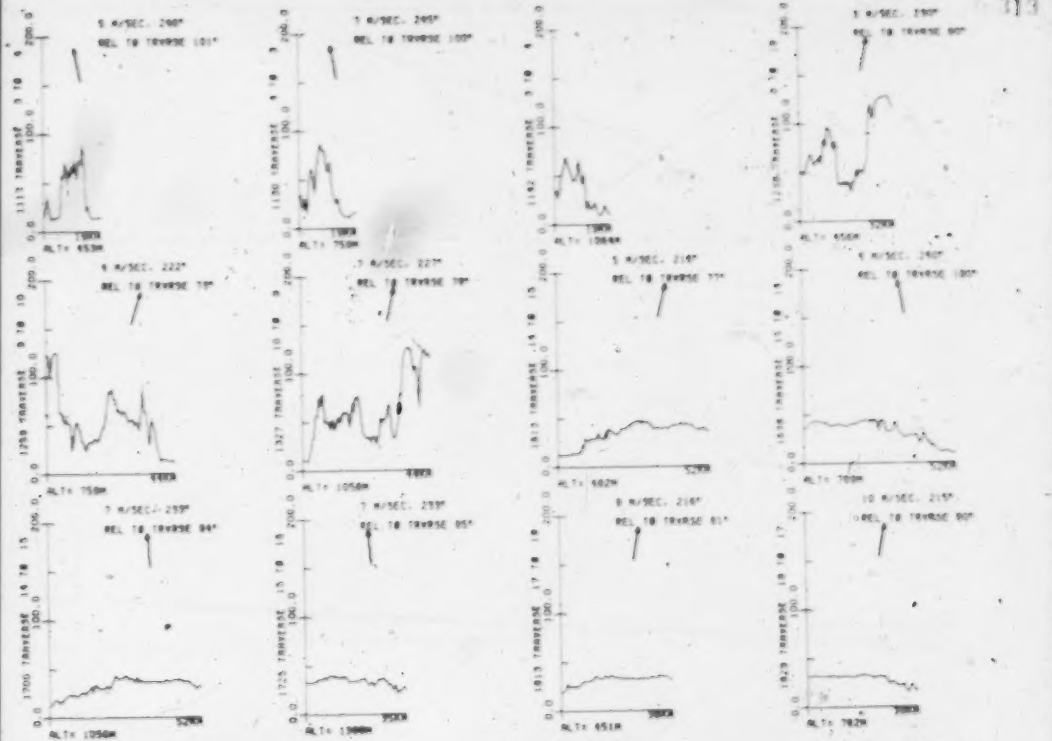
DEWPOINT IN DEGREES C

MAP 12



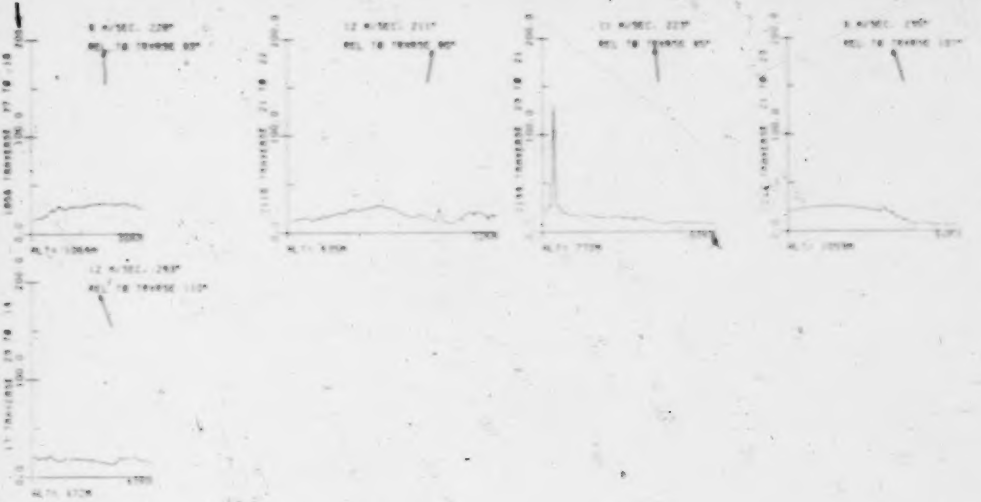
DEWPOINT IN DEGREES C

MAP 12



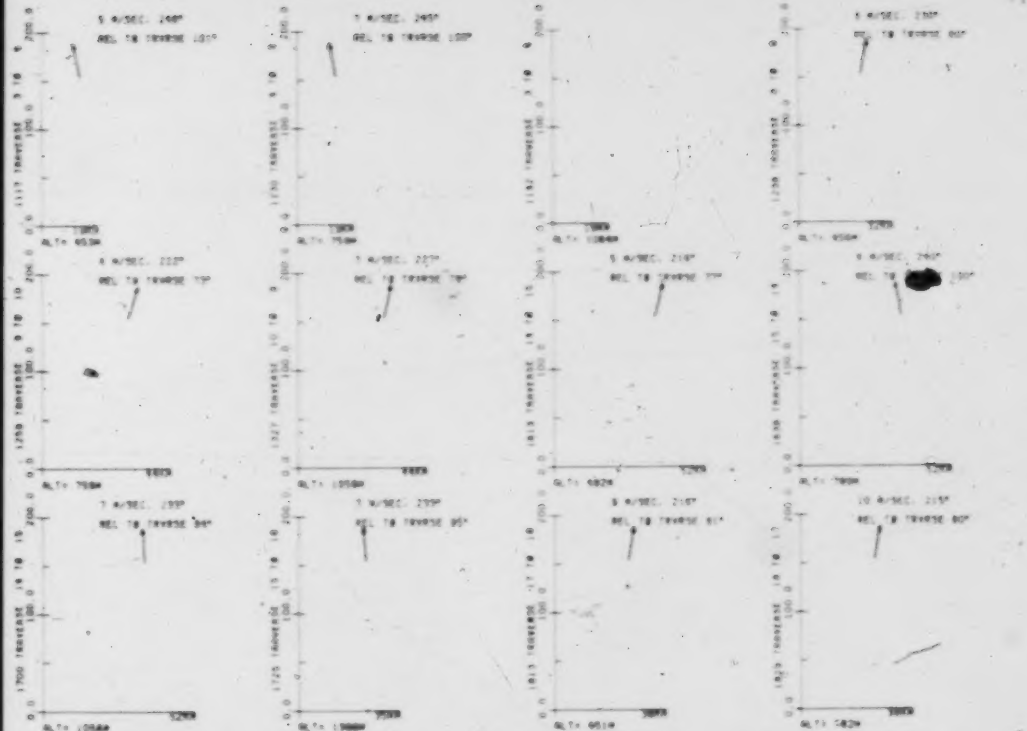
CNC IN $10^3 CM^{-3}$

MAP 12



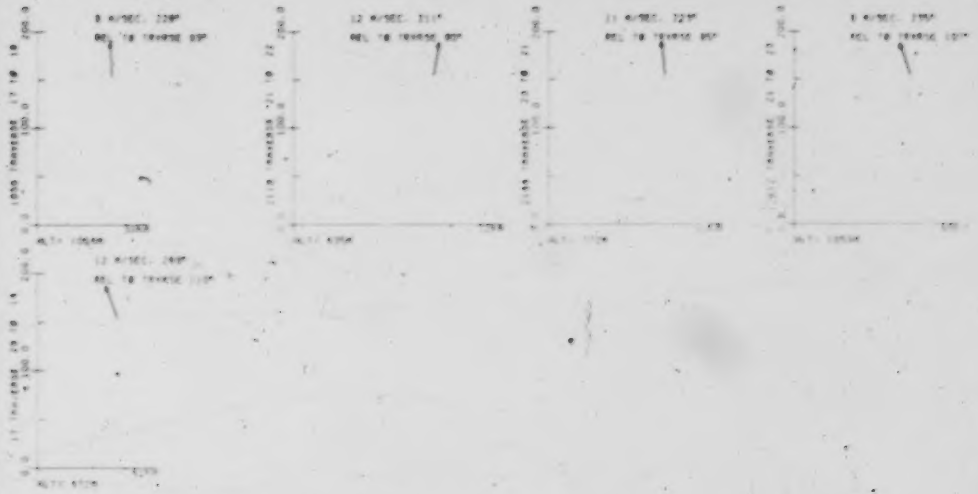
CNC IN $10^3 cm^{-3}$

MGP



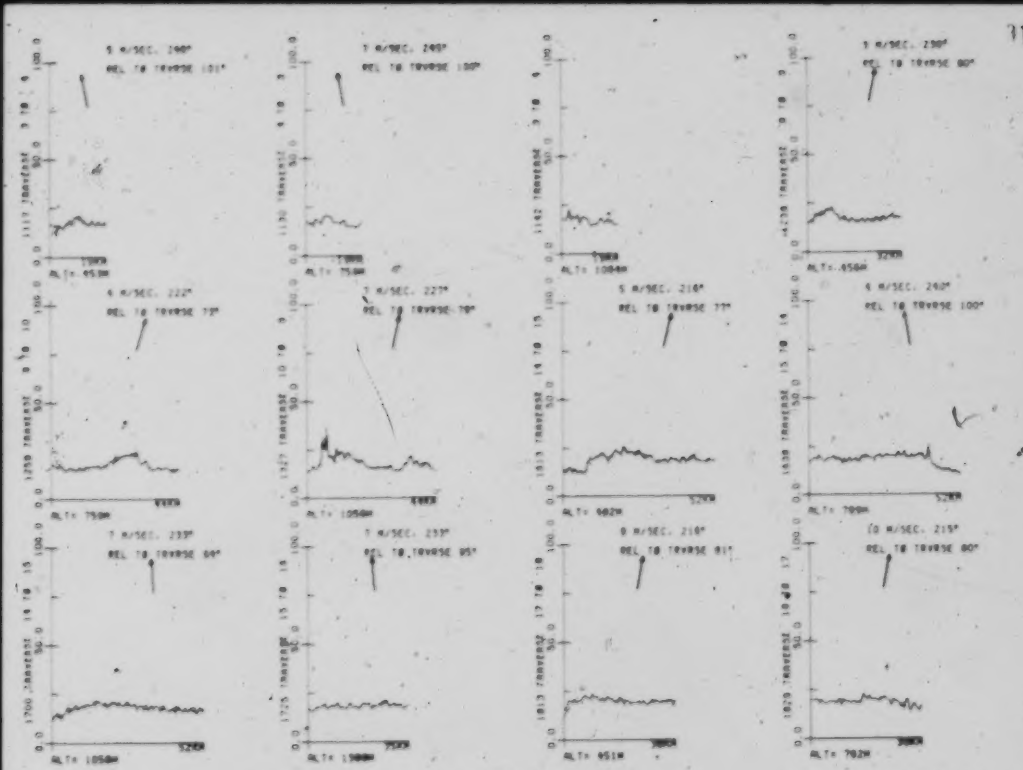
CHARGE IN MILLIVOLTS

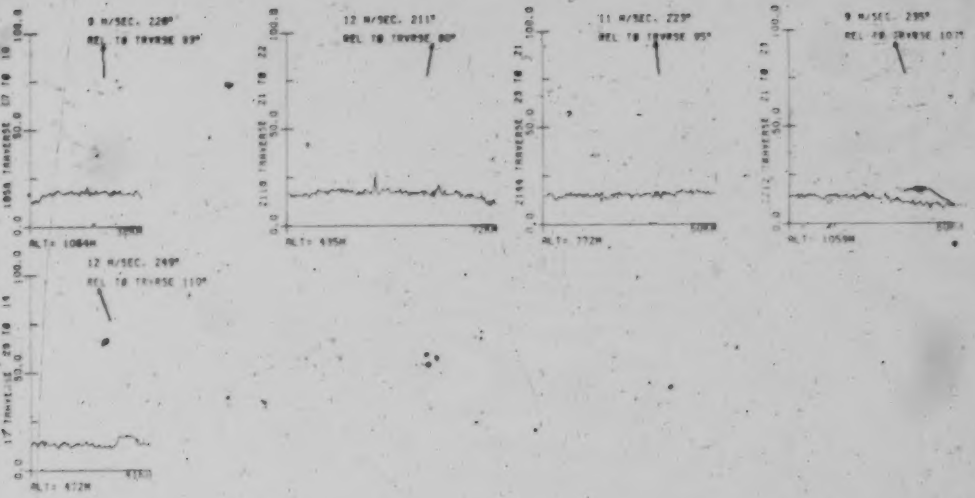
MAP 12



CHARGE IN MILLIVOLTS

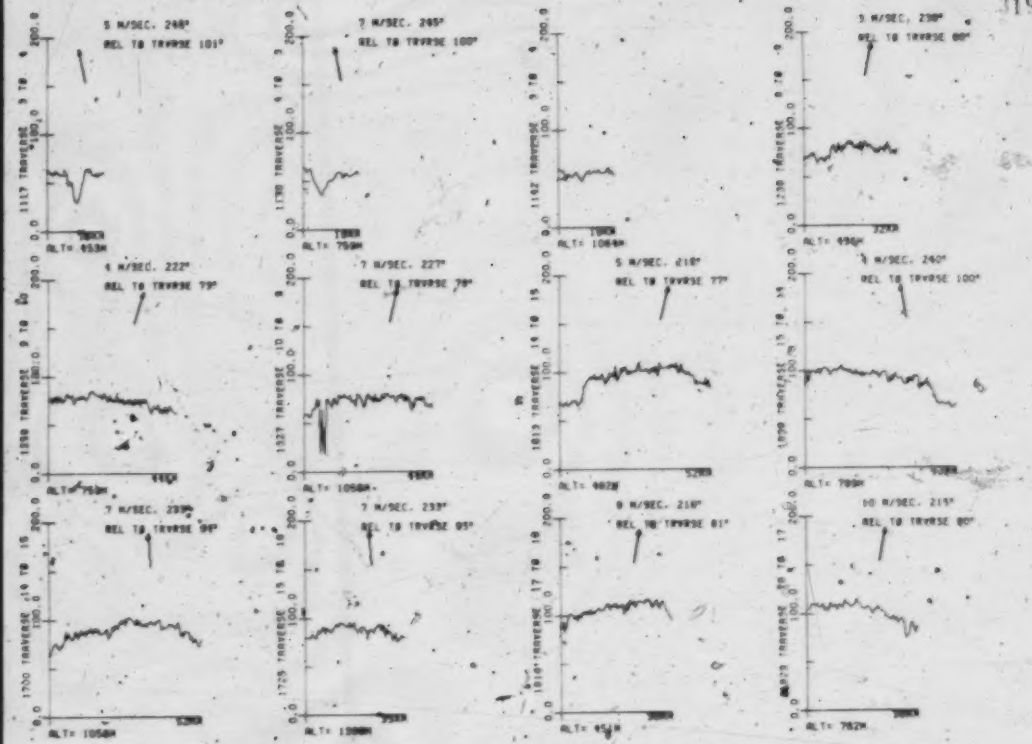
MAP 12


5 M/SEC. 240°
REL TO TRANSEC 101°
ALT= 653M
7 M/SEC. 240°
REL TO TRANSEC 100°
ALT= 753M
5 M/SEC. 230°
REL TO TRANSEC 80°
ALT= 656M
6 M/SEC. 222°
REL TO TRANSEC 73°
ALT= 750M
7 M/SEC. 227°
REL TO TRANSEC 79°
ALT= 1056M
5 M/SEC. 218°
REL TO TRANSEC 77°
ALT= 902M
6 M/SEC. 240°
REL TO TRANSEC 100°
ALT= 709M
7 M/SEC. 233°
REL TO TRANSEC 89°
ALT= 1056M
7 M/SEC. 233°
REL TO TRANSEC 95°
ALT= 1008M
9 M/SEC. 210°
REL TO TRANSEC 81°
ALT= 951M
10 M/SEC. 215°
REL TO TRANSEC 80°
ALT= 702M
BSCAT IN 10⁻⁵M⁻¹
MAP 1



BSCAT. IN 10^{-6} M^{-1}

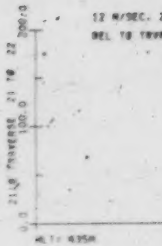
MAP 1



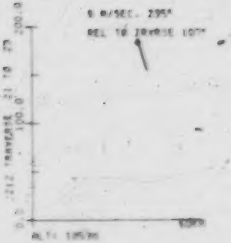
03 IN P.P.B.

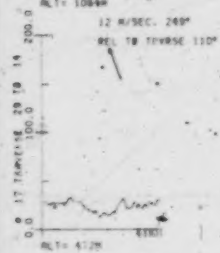
MAP 12

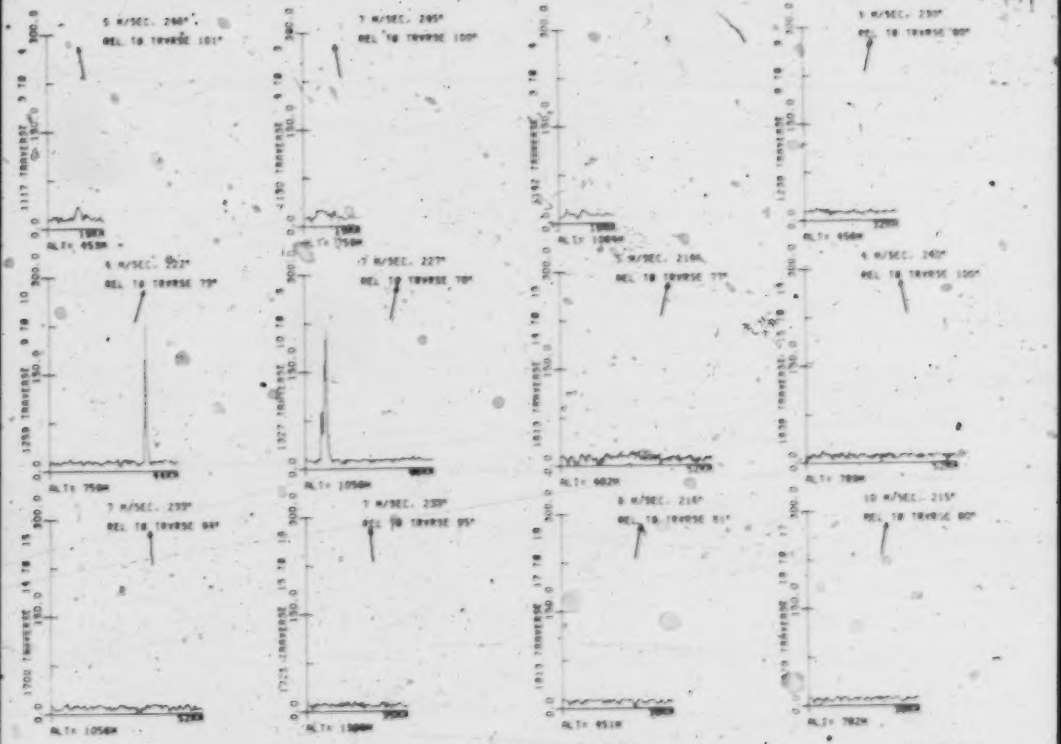
9 M/SEC. 220°
REL TO TRVRSE 83°
1850 TRAVERSE 17 TO 18
200.0
100.0
0.0
ALT: 1084M


12 M/SEC. 211°
REL TO TRVRSE 80°
2130 TRAVERSE 21 TO 22
200.0
100.0
0.0
ALT: 635M

11 M/SEC. 227°
REL TO TRVRSE 95°
2160 TRAVERSE 20 TO 21
200.0
100.0
0.0
ALT: 772M

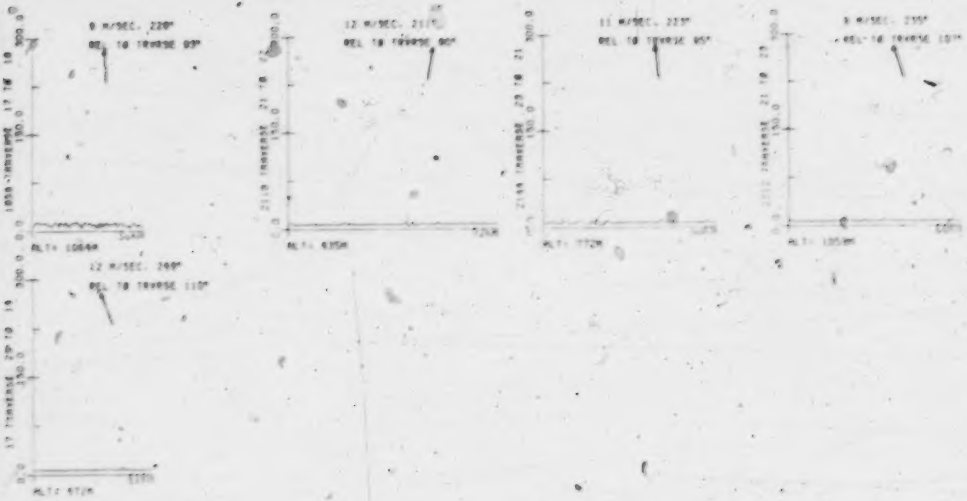

9 M/SEC. 295°
REL TO TRVRSE 107°
2112 TRAVERSE 21 TO 22
200.0
100.0
0.0
ALT: 1053M


12 M/SEC. 249°
REL TO TRVRSE 110°
0 17 TRAVERSE 20 TO 14
200.0
100.0
0.0
ALT: 412M



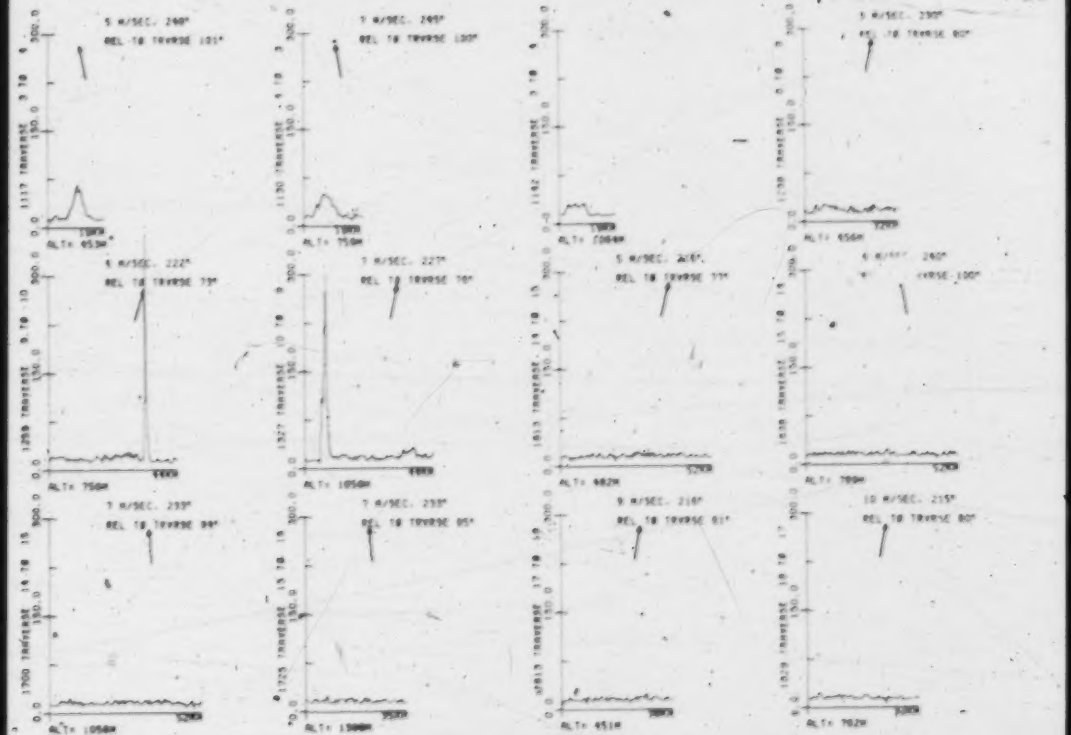
NØ IN P.P.B.

MAP 12



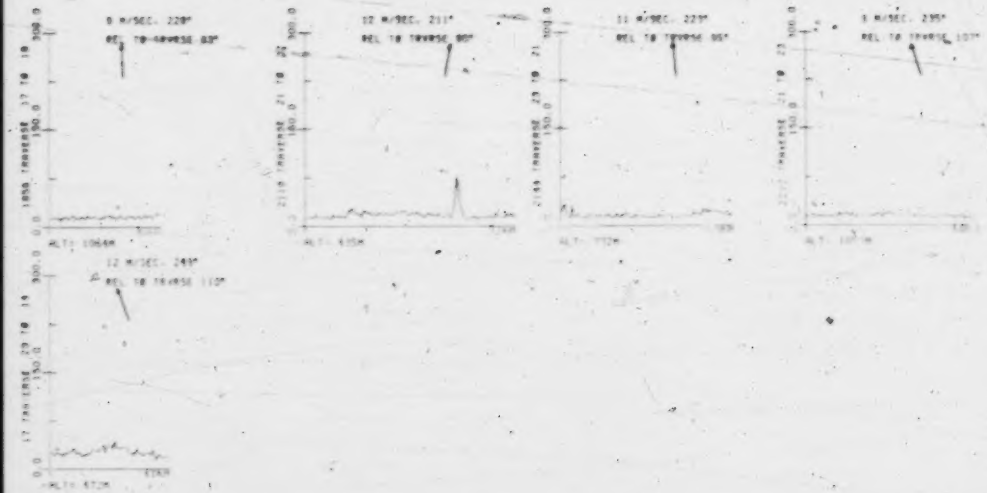
NØ IN P.P.B.

MAP 12



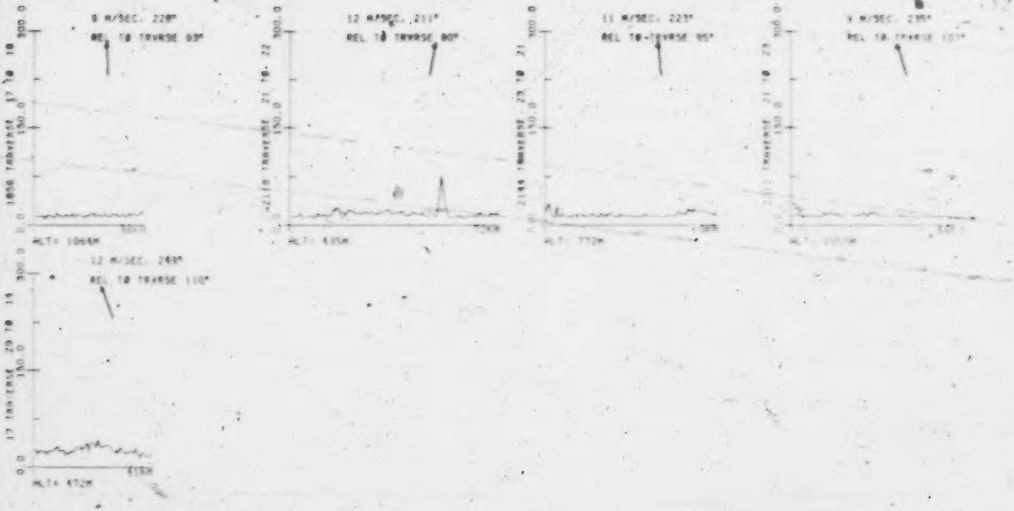
NOX IN P.P.B.

MAP 12



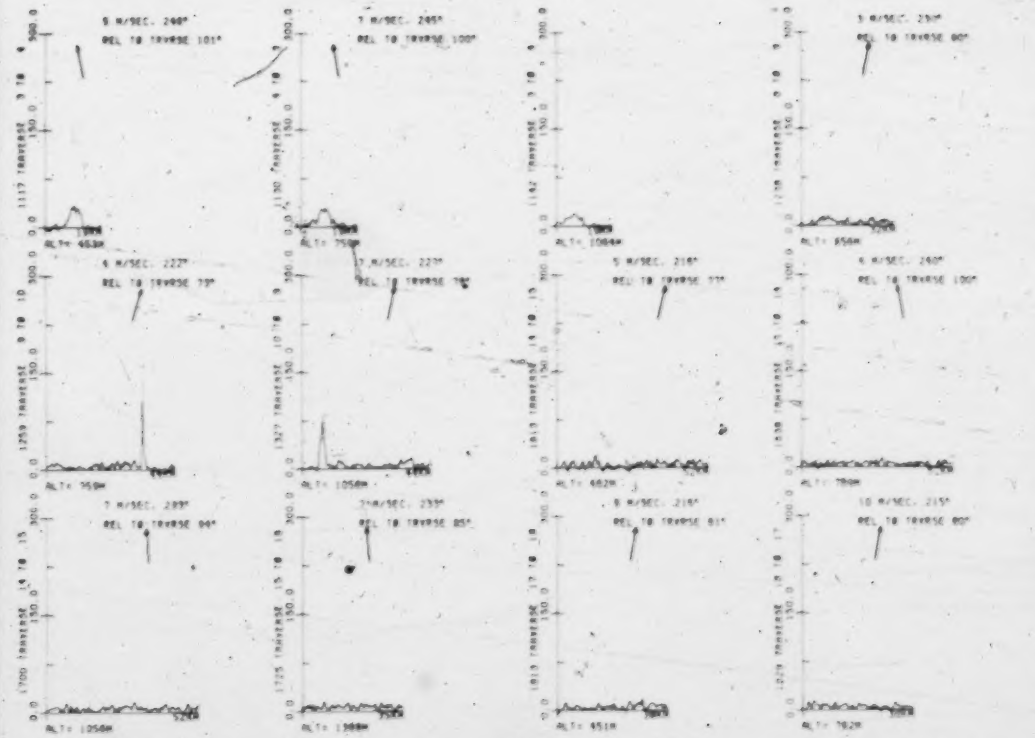
NOX IN P.P.B.

MAP 1



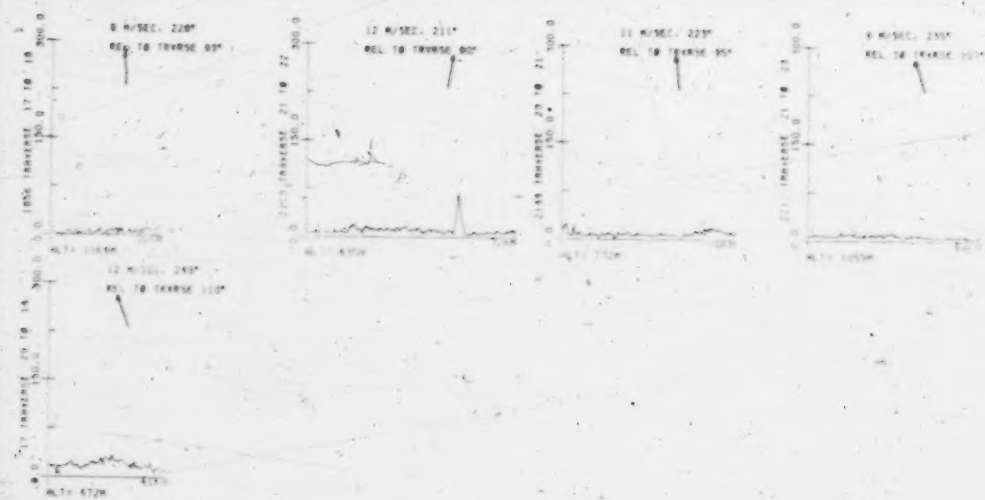
NØX IN P.P.B.

MAP 12



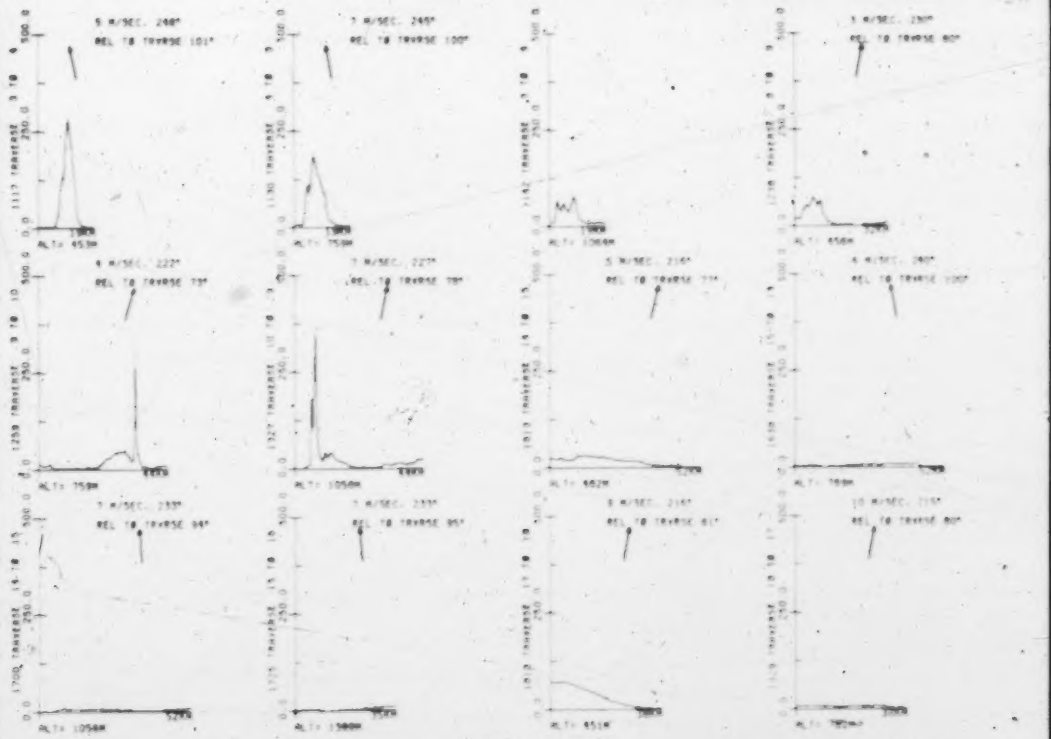
NØ2 IN P.P.B.

MAP 12



N82 IN P.P.B.

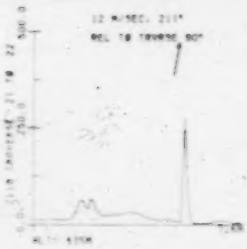
MAP 12

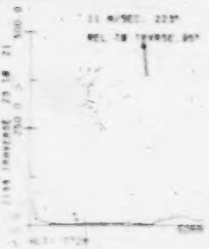


SEE IN P.P.B.

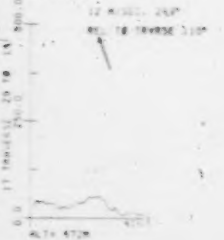
MAP 17

8 M/SEC. 220°
REL TO TRANSEC 90°
ALT= 1084M


12 M/SEC. 211°
REL TO TRANSEC 90°
ALT= 435M


11 M/SEC. 223°
REL TO TRANSEC 95°

8 M/SEC. 235°
REL TO TRANSEC 101°
ALT= 1054M


12 M/SEC. 252°
REL TO TRANSEC 110°
ALT= 472M

SEE IN P.F.B.

62572376

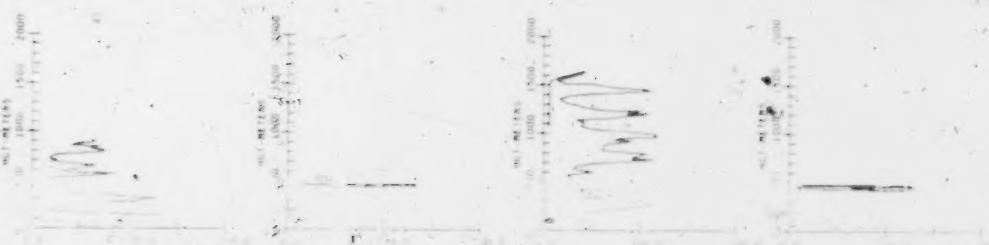
MAP 11

TEMP IN DEGREES C

MAP 41

DEWPOINT IN DEGREES K

MAP 11

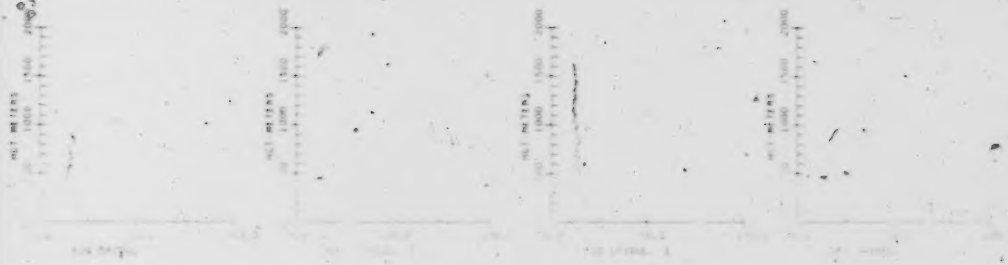


CNC IN $10^{12}cm^{-3}$

MHF 11

CHARGE IN MILLIVOLTS

MAP 11

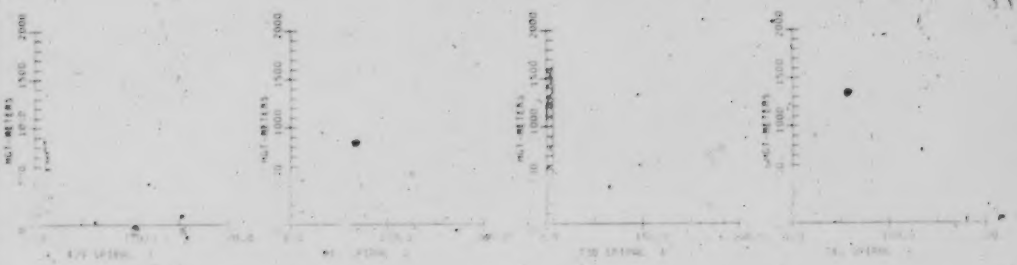


BSCAT IN $10^{-6}M^{-1}$

MAP 11

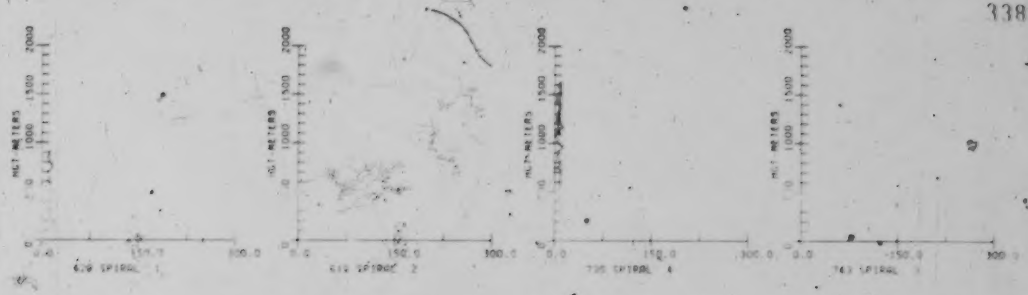
83 IN P.P.B.

MAP 11



NE IN P.P.B.

MAP 11

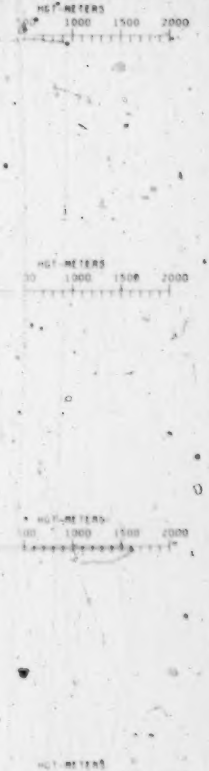


NØT IN P.P.B.

MAP 11

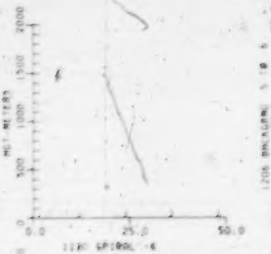
NO2 IN P.P.B.

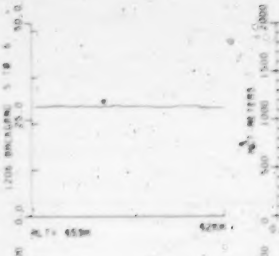
MAR 31

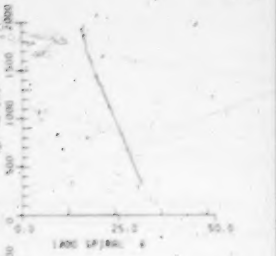

HGT-METERS
1000
1500
2000
HGT-METERS
1000
1500
2000
HGT-METERS
1000
1500
2000
HGT-METERS
1000
1500
2000

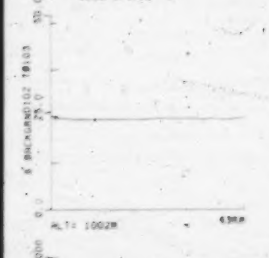
62672378

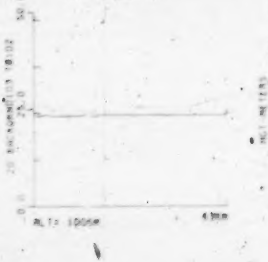
MAP 12

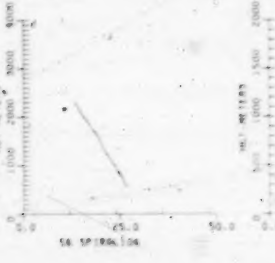


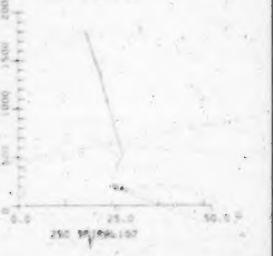


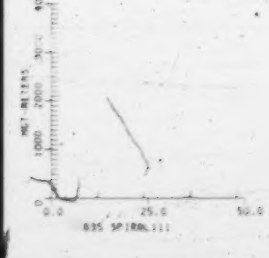










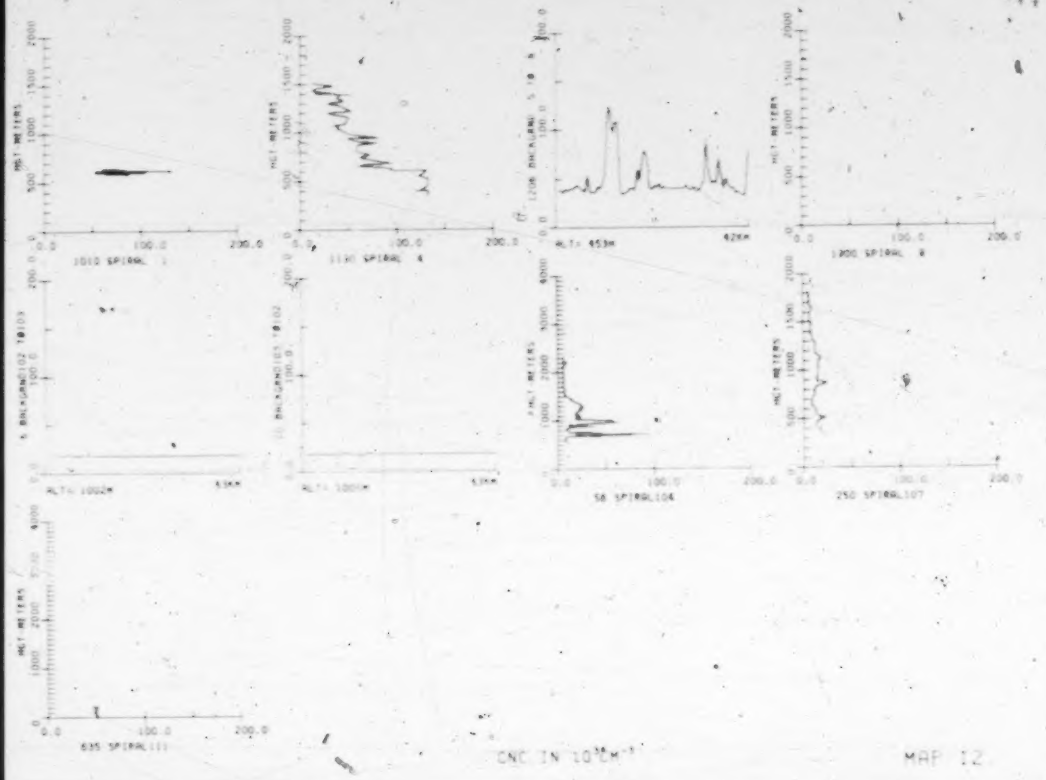


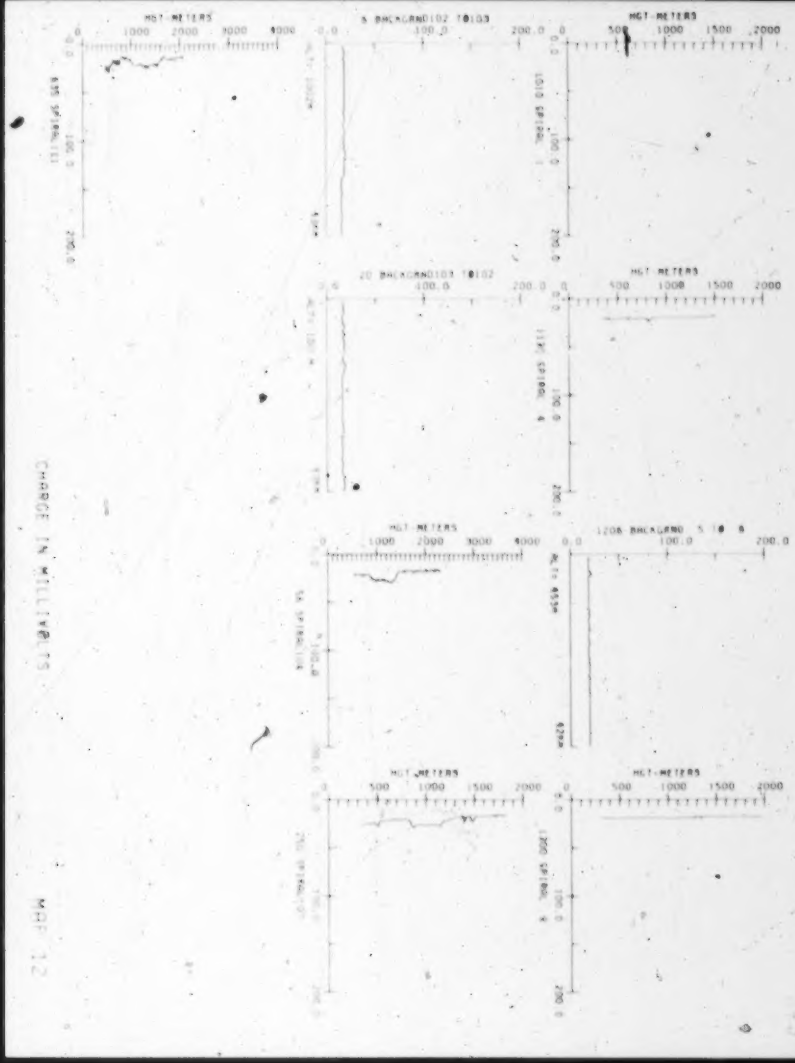
TEMP IN DEGREES C

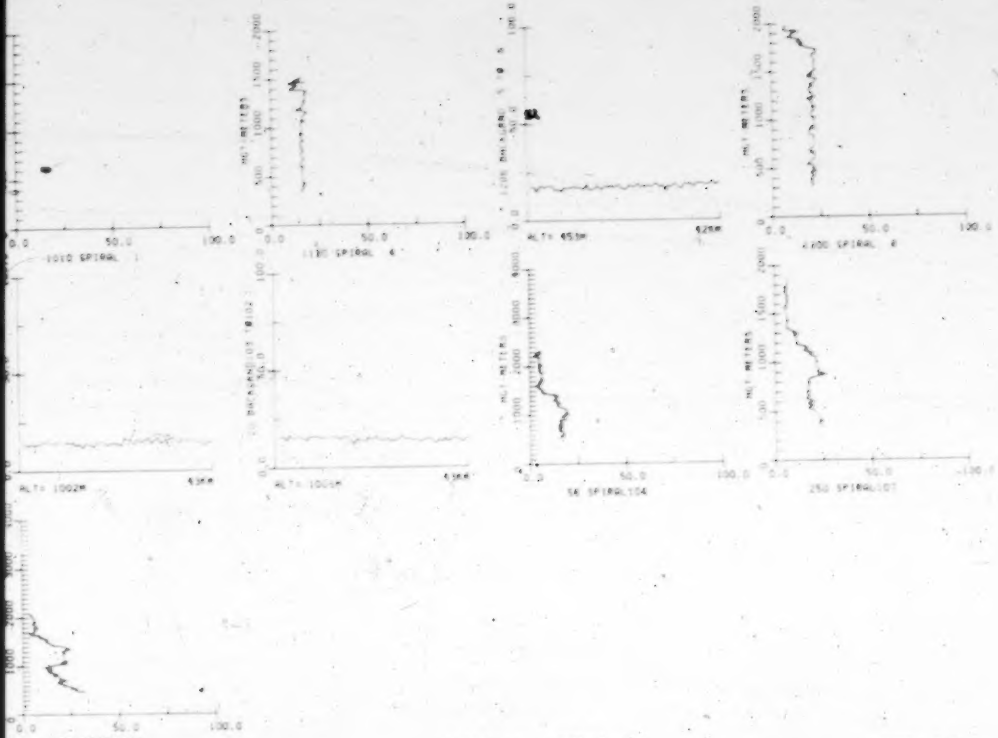
MAP 12

HGT METERS
0.0
25.0
50.0
1015 SP100L 1
1130 SP100L 4
1200 SP100L 6
ALT= 100KM
635 SP100L111
DEWPOINT IN DEGREES C

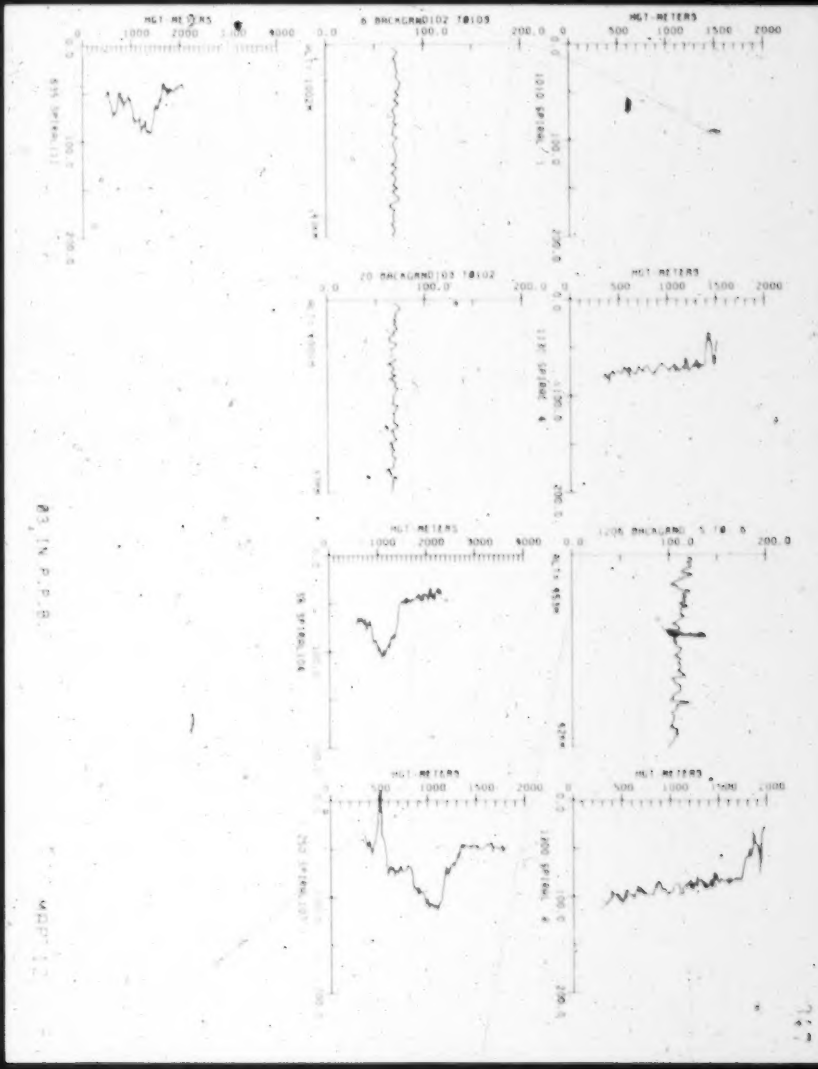
MAP 12

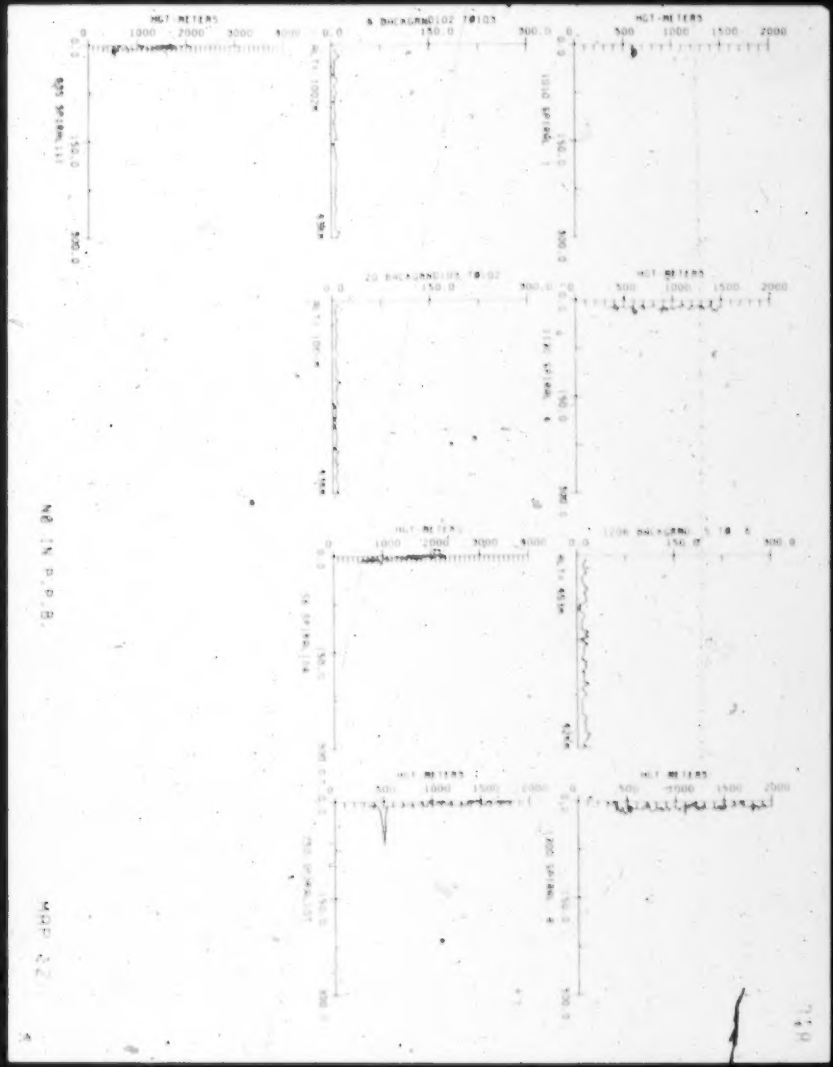

HGT METERS
1010 SP(RAL 1
1141 SP(RAL 4
ALT= 453M
42KM
1900 SP(RAL 8
ALT= 1002M
ALT= 1001M
58 SP(RAL104
250 SP(RAL107
635 SP(RAL111
CNC IN 10³⁶M⁻¹
MAP 12

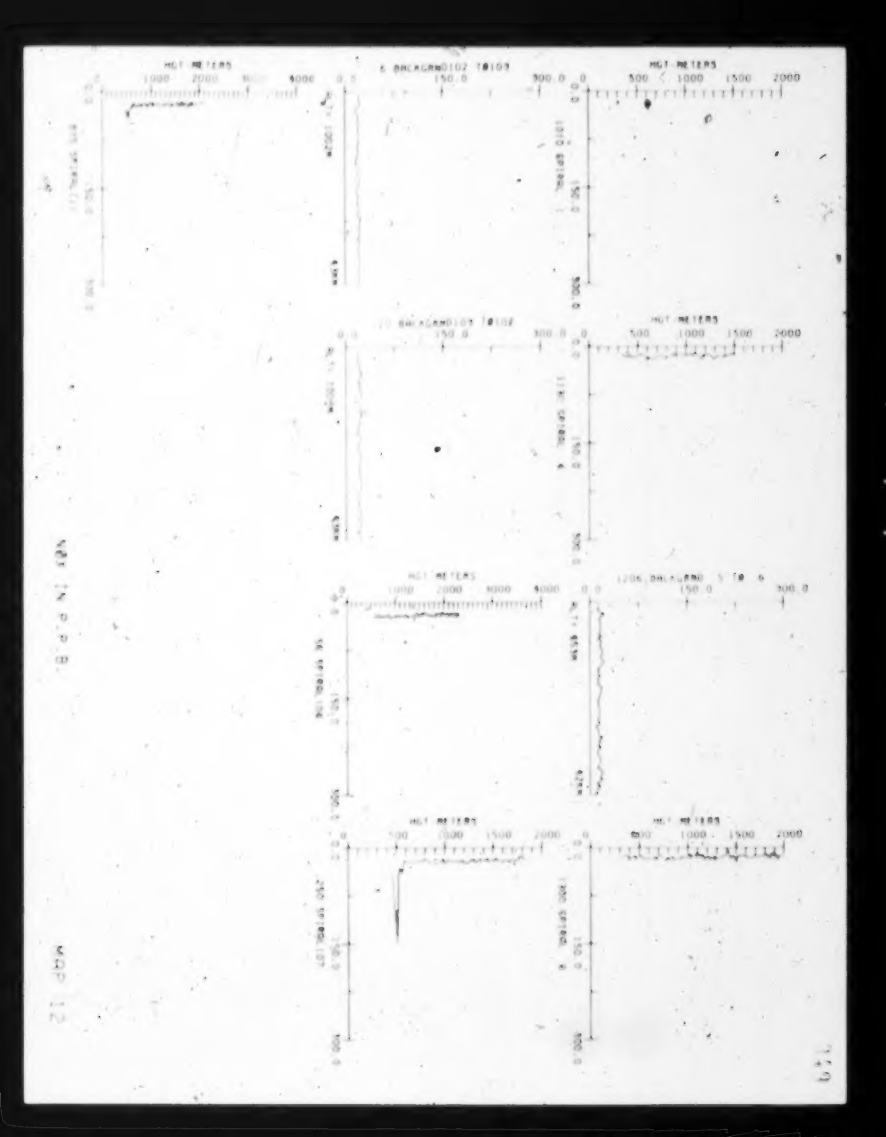

HGT METERS
0
1000
2000
3000
4000
5 BKGRND102 T0103
0.0
100.0
200.0
HGT METERS
0
500
1000
1500
2000
20 BKGRND102 T0102
100.0
200.0
HGT METERS
0
500
1000
1500
2000
HGT METERS
0
1000
2000
3000
4000
120 BKGRND 5 10 0
0.0
100.0
200.0
HGT METERS
0
500
1000
1500
2000
HGT METERS
0
500
1000
1500
2000

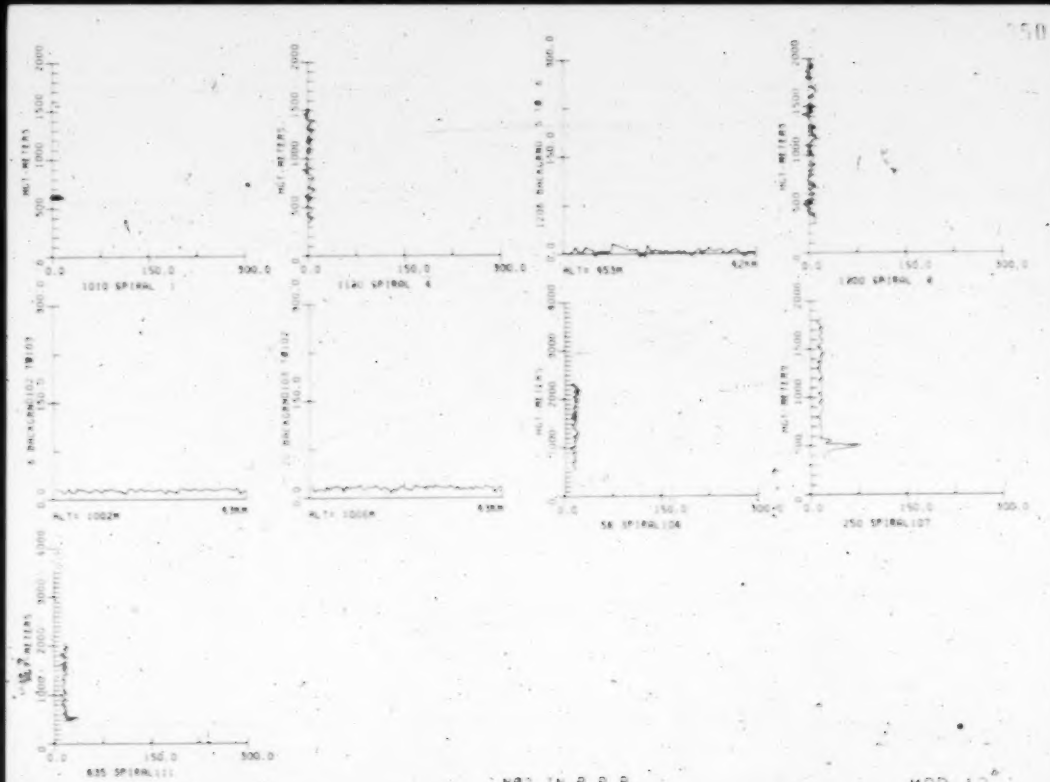

0.0
50.0
100.0
ALT= 1002M
ALT= 1001M
ALT= 453M
ALT METERS
BACKSCAT
635 SPIRAL111
BSCAT IN $10^{-5}M^{-1}$

MAP 12


HGT-METERS
HGT-METERS
HGT-METERS
HGT-METERS
HGT-METERS
HGT-METERS

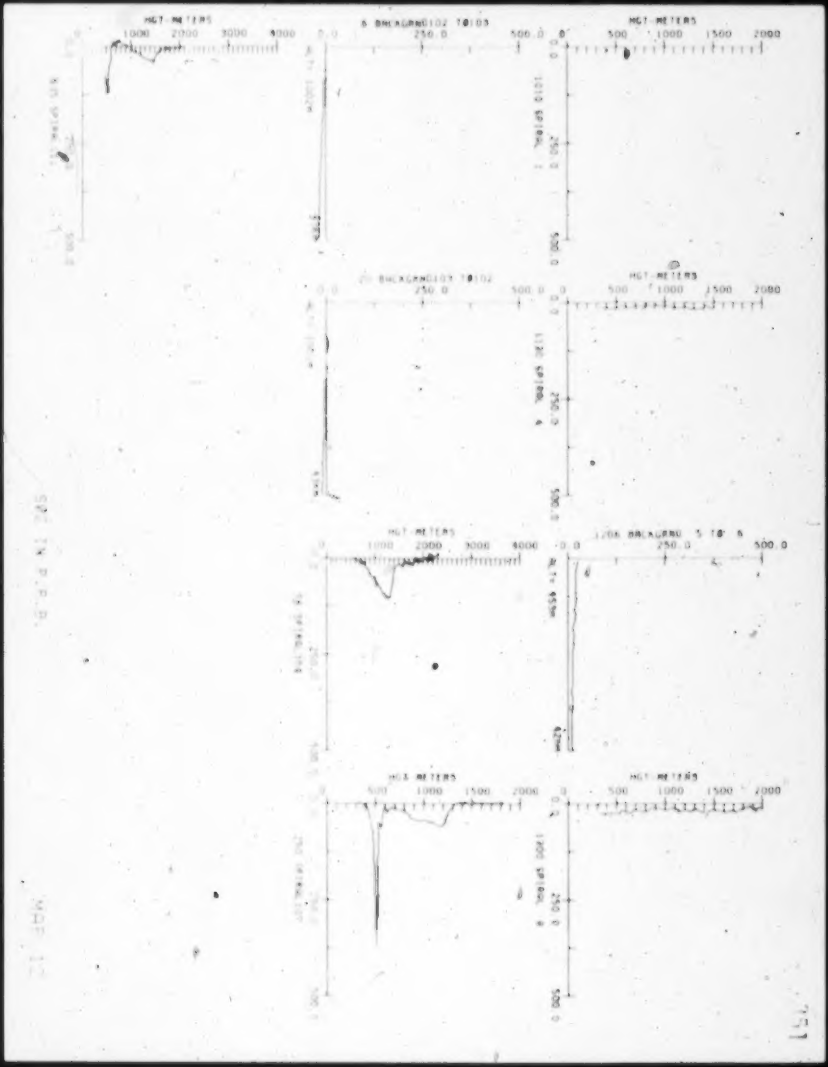






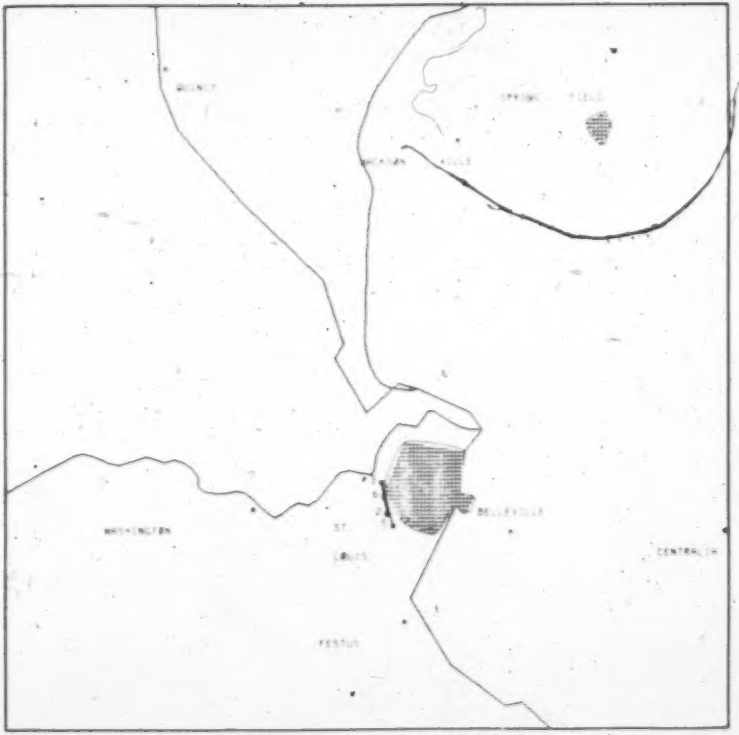
NØ2 IN P.P.B.

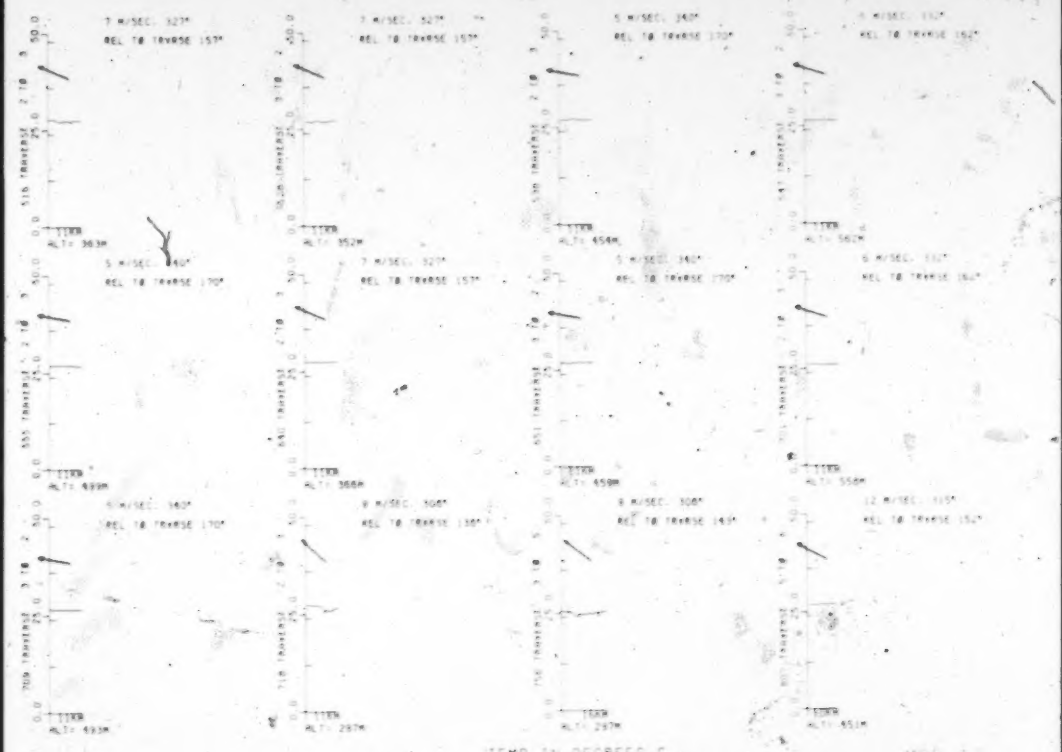
MAP 12


HGT METERS
1000 2000 3000 4000
0.0
250.0
500.0
HGT METERS
500 1000 1500 2000
HGT METERS
1000 2000 3000 4000
HGT METERS
500 1000 1500 2000

62572378

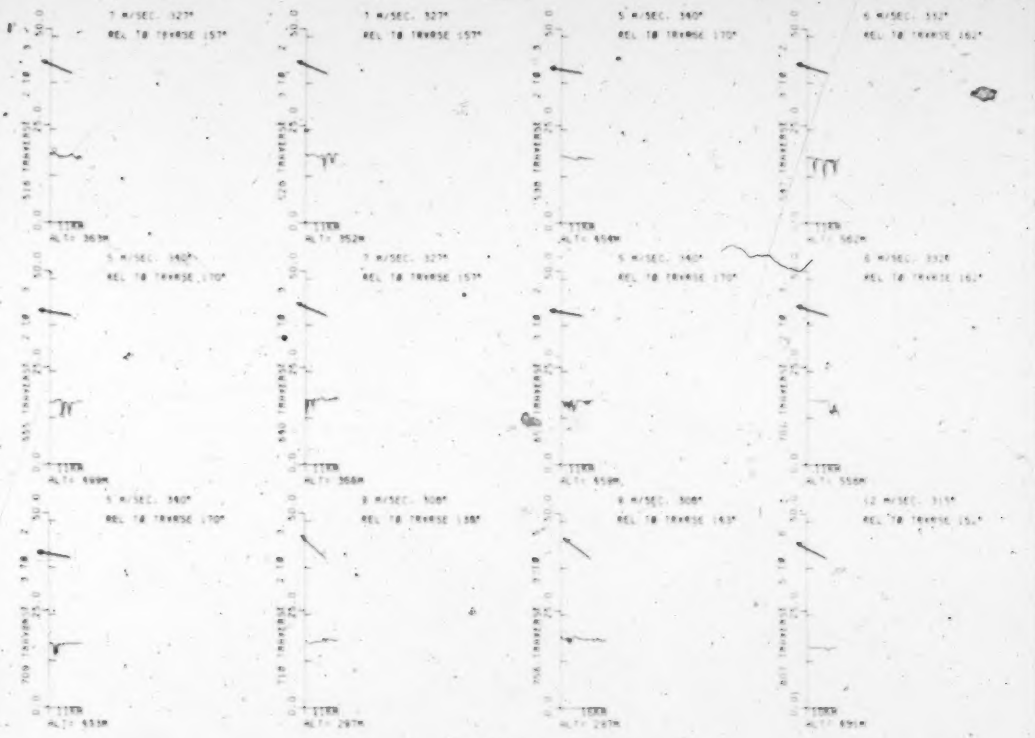
MAP 14



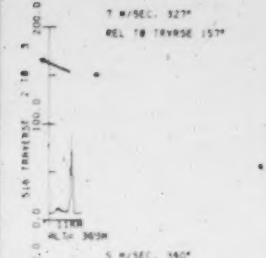

7 M/SEC. 327°
REL TO TRANSE 157°
ALT= 303M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT= 352M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 456M
5 M/SEC. 110°
REL TO TRANSE 152°
ALT= 561M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 499M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT= 368M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 459M
6 M/SEC. 110°
REL TO TRANSE 152°
ALT= 556M
6 M/SEC. 340°
REL TO TRANSE 170°
ALT= 493M
9 M/SEC. 306°
REL TO TRANSE 136°
ALT= 287M
8 M/SEC. 308°
REL TO TRANSE 141°
ALT= 297M
12 M/SEC. 110°
REL TO TRANSE 152°
ALT= 451M
TEMP IN DEGREES C

TEMP IN DEGREES C

MAP 13


7 M/SEC. 327°
REL TO TRANSE 157°
ALT= 363M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT= 352M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 454M
5 M/SEC. 332°
REL TO TRANSE 162°
ALT= 562M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 499M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT= 368M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 459M
6 M/SEC. 332°
REL TO TRANSE 162°
ALT= 556M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT= 453M
8 M/SEC. 308°
REL TO TRANSE 138°
ALT= 287M
8 M/SEC. 308°
REL TO TRANSE 143°
ALT= 287M
12 M/SEC. 315°
REL TO TRANSE 151°
ALT= 491M
DEWPOINT IN DEGREES C

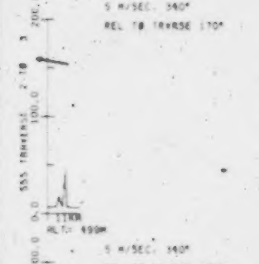
DEWPOINT IN DEGREES C

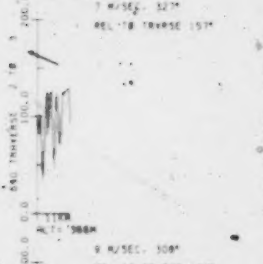

7 M/SEC. 327°
REL TO TRVRSE 157°
516 TRAVERSE
ALT= 305M

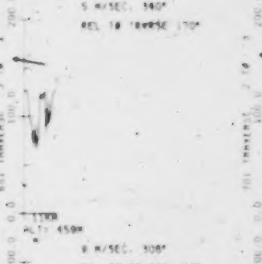
7 M/SEC. 327°
REL TO TRVRSE 157°
520 TRAVERSE
ALT= 352M

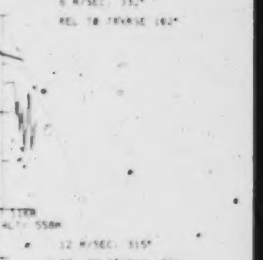
5 M/SEC. 340°
REL TO TRVRSE 170°
530 TRAVERSE
ALT= 454M

6 M/SEC. 332°
REL TO TRVRSE 162°
547 TRAVERSE
ALT= 582M


5 M/SEC. 340°
REL TO TRVRSE 170°
555 TRAVERSE
ALT= 499M

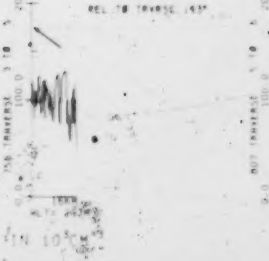

7 M/SEC. 327°
REL TO TRVRSE 157°
561 TRAVERSE
ALT= 588M

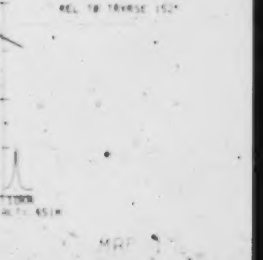

5 M/SEC. 340°
REL TO TRVRSE 170°
551 TRAVERSE
ALT= 459M


6 M/SEC. 332°
REL TO TRVRSE 162°
701 TRAVERSE
ALT= 550M

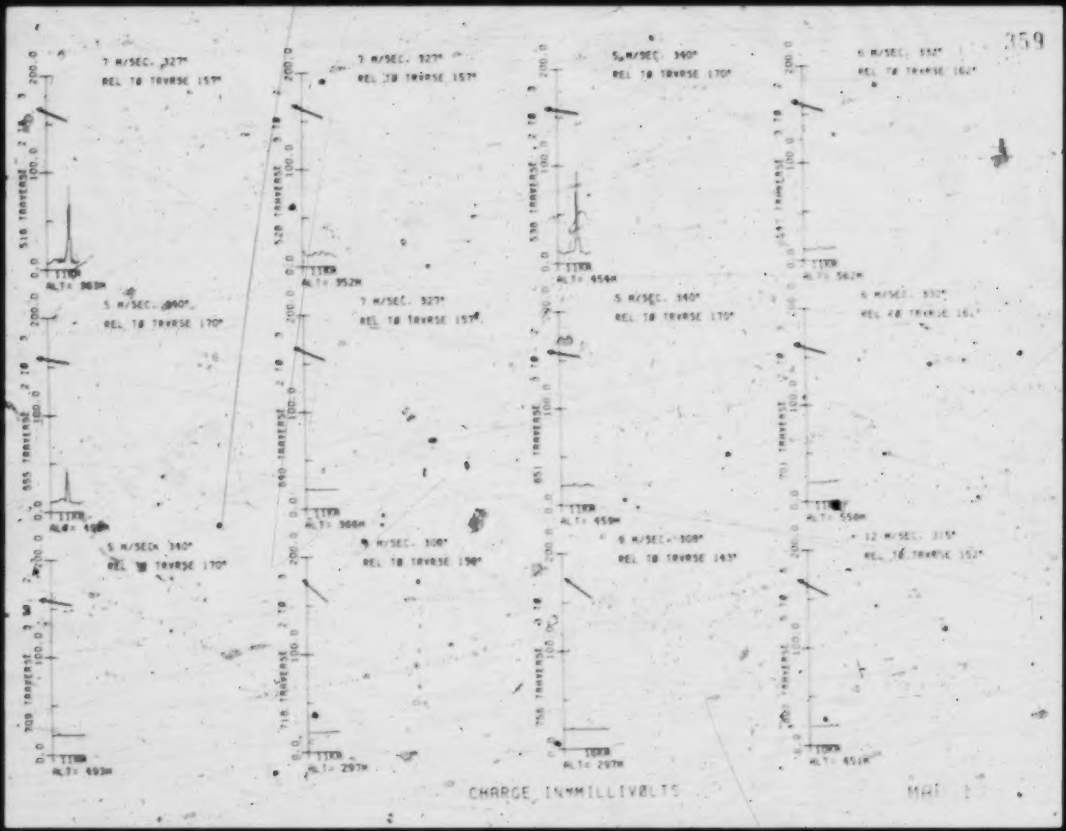
5 M/SEC. 340°
REL TO TRVRSE 170°
709 TRAVERSE
ALT= 493M

9 M/SEC. 308°
REL TO TRVRSE 138°
710 TRAVERSE
ALT= 287M

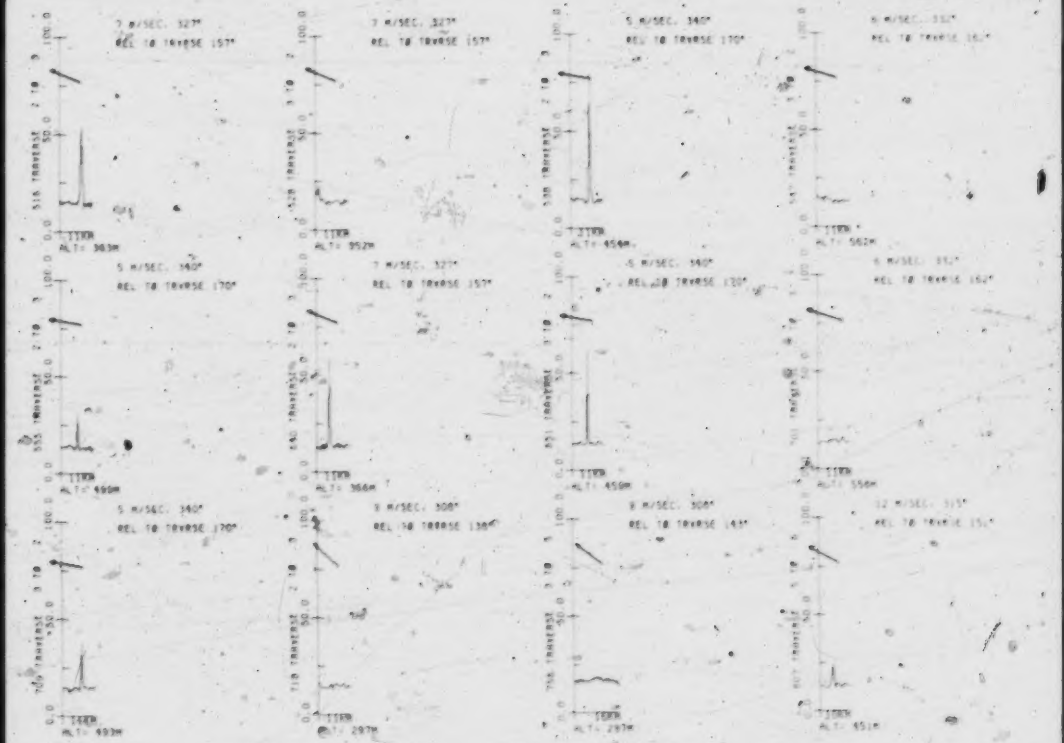

9 M/SEC. 308°
REL TO TRVRSE 143°
756 TRAVERSE
ALT= 270M


12 M/SEC. 315°
REL TO TRVRSE 152°
807 TRAVERSE
ALT= 451M

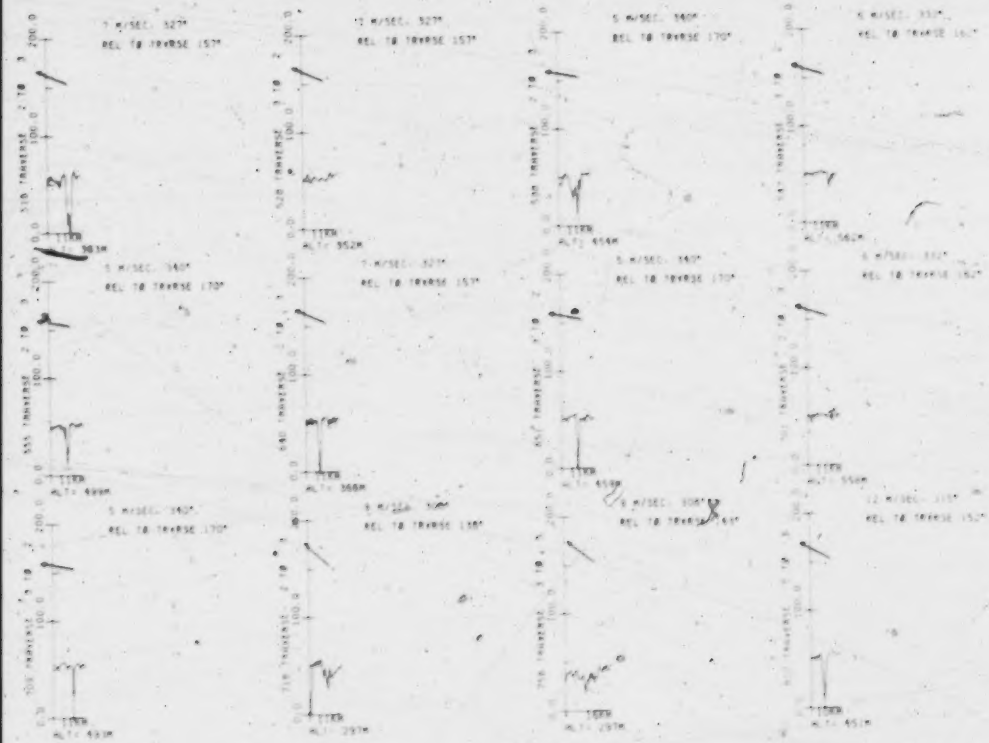
CNC IN $10^3 CM^{-3}$
MAP 213


7 M/SEC. 327°
REL TO TRVRSE 157°
510 TRAVERSE
ALT= 963M
7 M/SEC. 327°
REL TO TRVRSE 157°
520 TRAVERSE
ALT= 952M
5 M/SEC. 340°
REL TO TRVRSE 170°
530 TRAVERSE
ALT= 954M
5 M/SEC. 332°
REL TO TRVRSE 162°
551 TRAVERSE
ALT= 562M
5 M/SEC. 340°
REL TO TRVRSE 170°
555 TRAVERSE
7 M/SEC. 327°
REL TO TRVRSE 157°
640 TRAVERSE
ALT= 900M
5 M/SEC. 340°
REL TO TRVRSE 170°
651 TRAVERSE
ALT= 459M
5 M/SEC. 332°
REL TO TRVRSE 162°
701 TRAVERSE
ALT= 550M
5 M/SEC. 340°
REL TO TRVRSE 170°
710 TRAVERSE
ALT= 493M
9 M/SEC. 300°
REL TO TRVRSE 190°
718 TRAVERSE
ALT= 297M
9 M/SEC. 300°
REL TO TRVRSE 143°
758 TRAVERSE
ALT= 297M
12 M/SEC. 315°
REL TO TRVRSE 152°
ALT= 451M
CHARGE IN MILLIVOLTS
MAR

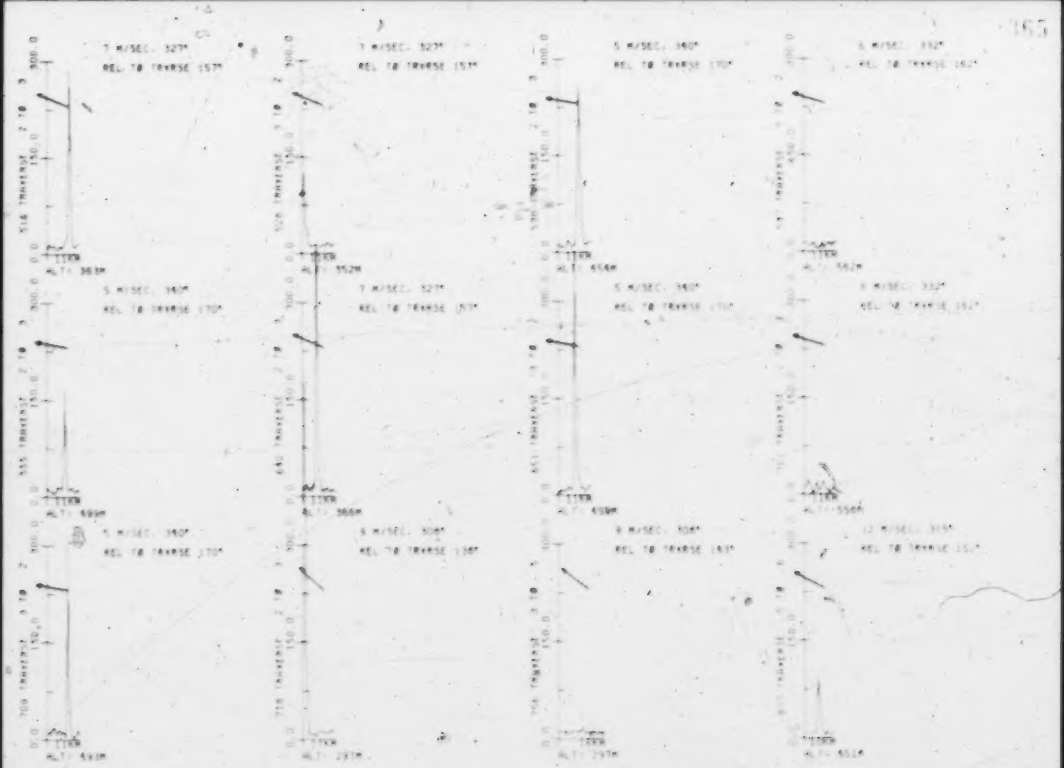
CHARGE IN MILLIVOLTS

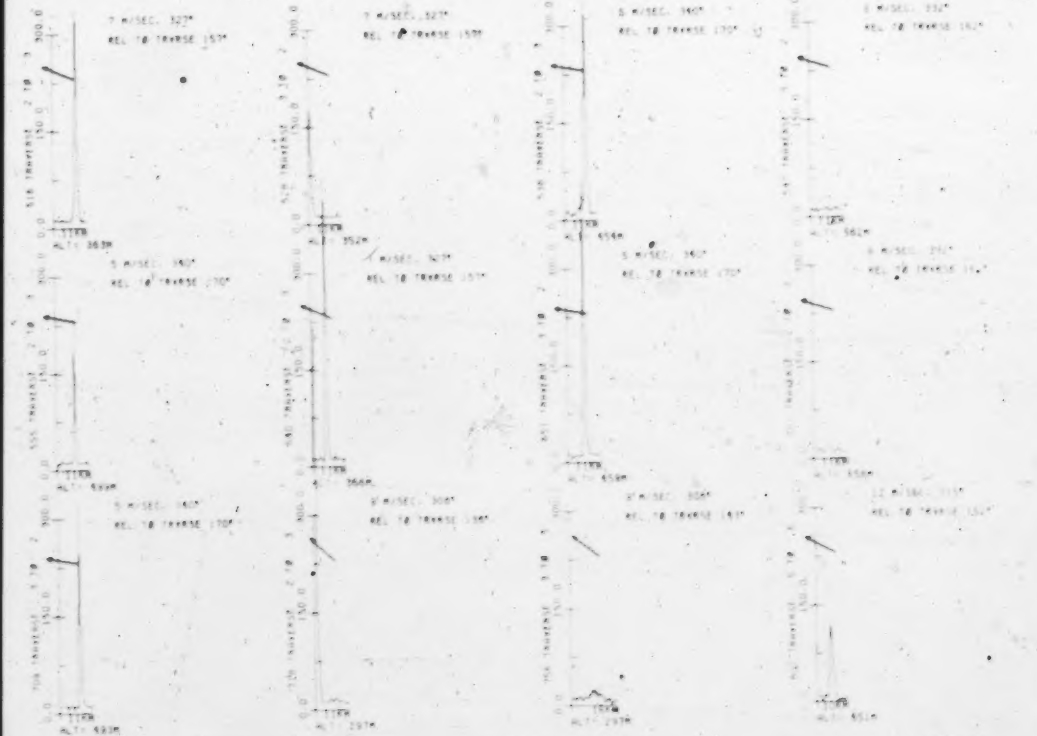

7 M/SEC. 327°
REL TO TRANSE 157°
7 M/SEC. 327°
REL TO TRANSE 157°
5 M/SEC. 340°
REL TO TRANSE 170°
5 M/SEC. 340°
REL TO TRANSE 170°
7 M/SEC. 327°
REL TO TRANSE 157°
5 M/SEC. 340°
REL TO TRANSE 170°
5 M/SEC. 340°
REL TO TRANSE 170°
8 M/SEC. 308°
REL TO TRANSE 138°
8 M/SEC. 308°
REL TO TRANSE 141°
12 M/SEC. 315°
REL TO TRANSE 151°
BSCAT IN 10⁻⁴ M⁻¹

BSCAT IN 10



03 IN P.P.B.

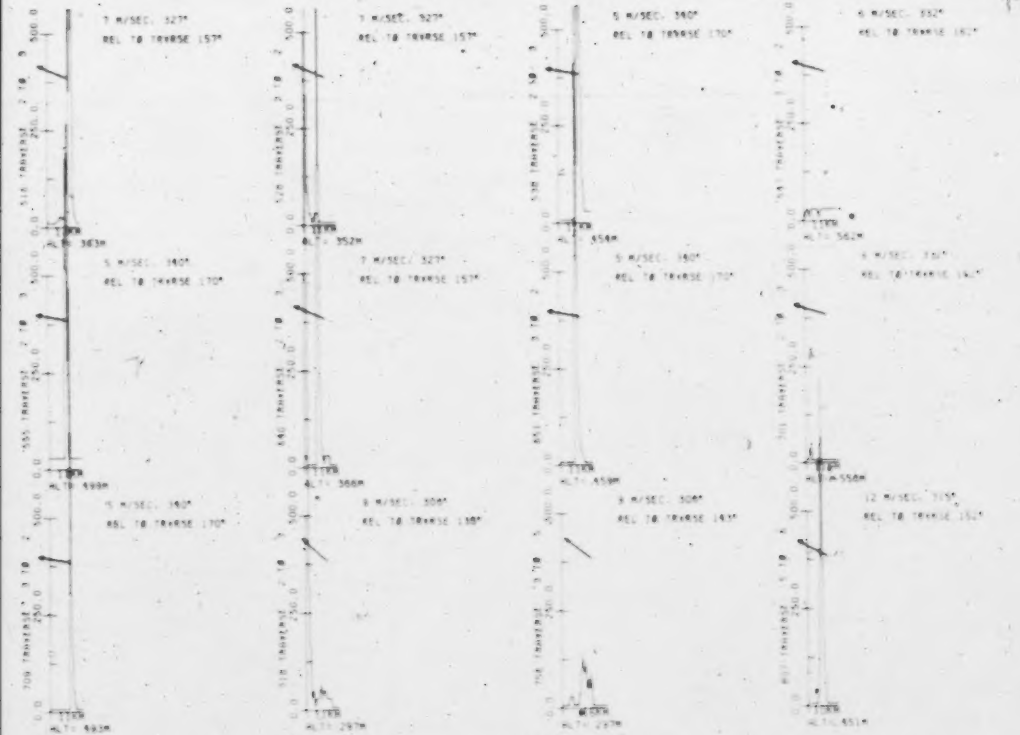

7 M/SEC. 327°
REL TO TRANSE 157°
ALT: 363M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 499M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 543M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT: 352M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT: 366M
5 M/SEC. 304°
REL TO TRANSE 136°
ALT: 297M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 414M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 459M
5 M/SEC. 304°
REL TO TRANSE 134°
ALT: 297M
ALT: 562M
ALT: 556M
ALT: 551M



NEXT IN P.F.B.

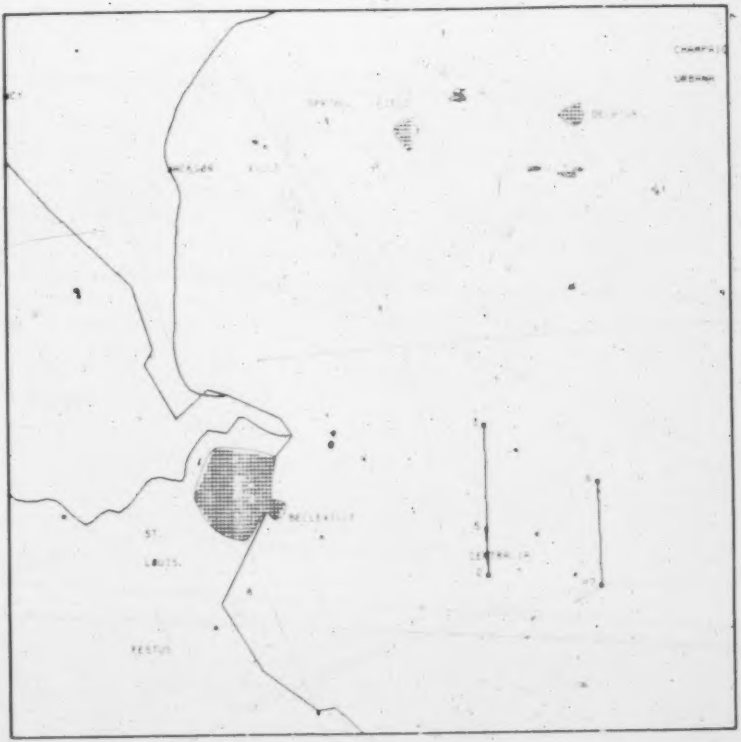
NSI IN P.P.B

MAP 13


7 M/SEC. 327°
REL TO TRANSE 157°
ALT: 383M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT: 352M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 659M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 562M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 599M
7 M/SEC. 327°
REL TO TRANSE 157°
ALT: 566M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 459M
12 M/SEC. 315°
REL TO TRANSE 145°
ALT: 556M
5 M/SEC. 340°
REL TO TRANSE 170°
ALT: 493M
5 M/SEC. 304°
REL TO TRANSE 130°
ALT: 297M
5 M/SEC. 304°
REL TO TRANSE 141°
ALT: 297M
12 M/SEC. 315°
REL TO TRANSE 135°
ALT: 451M

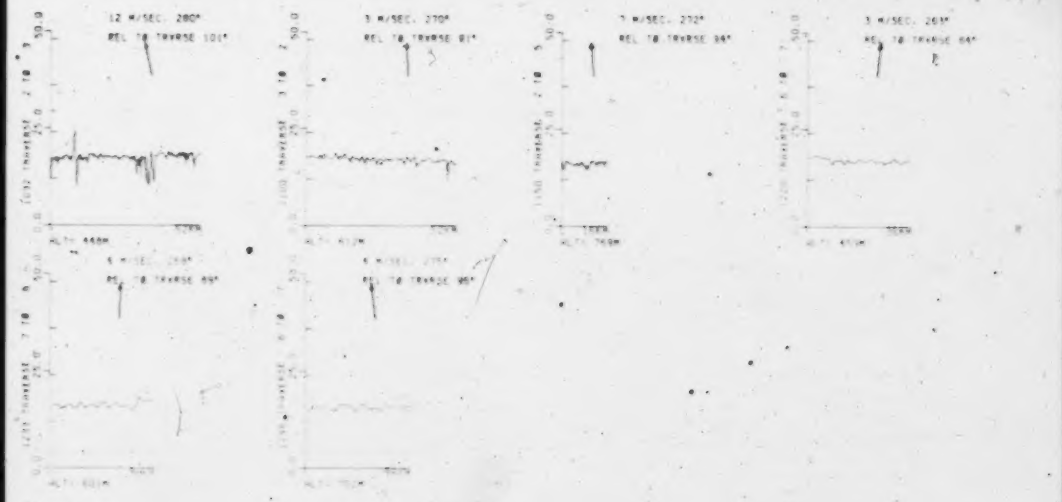
B2872376

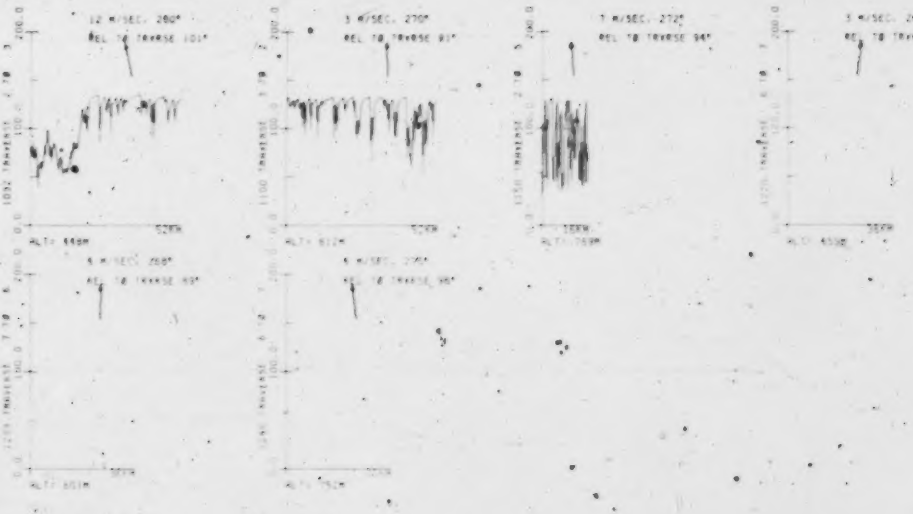
MAR 14

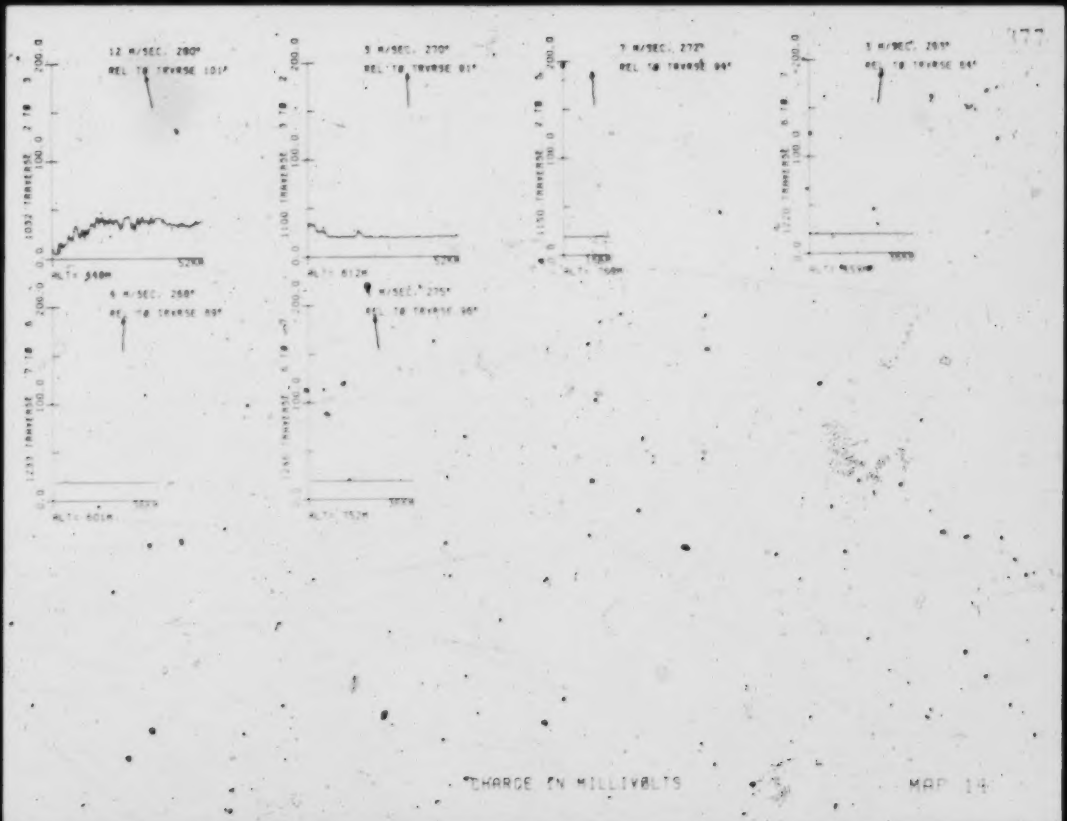


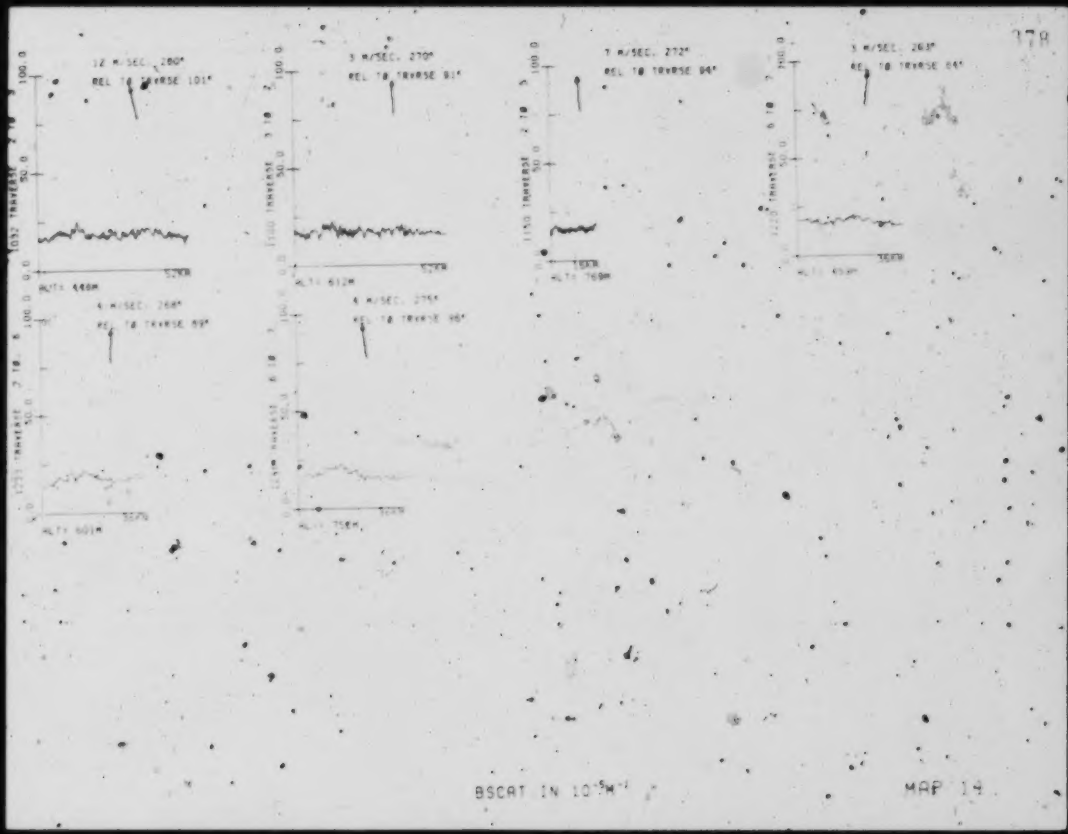
TEMP IN DEGREES C

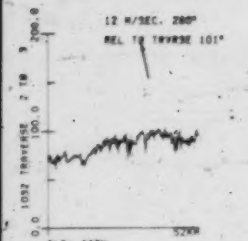
MAP 18

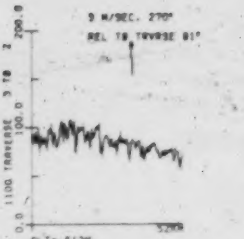

12 M/SEC. 280°
REL TO TRANSECT 101°
3 M/SEC. 270°
REL TO TRANSECT 81°
7 M/SEC. 272°
REL TO TRANSECT 84°
3 M/SEC. 261°
REL TO TRANSECT 64°
6 M/SEC. 268°
REL TO TRANSECT 89°
6 M/SEC. 277°
REL TO TRANSECT 98°
DEWPOINT IN DEGREES C

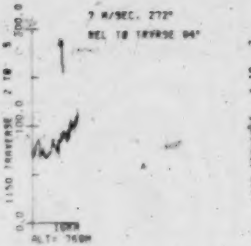

12 M/SEC. 280°
REL TO TRANSE 101°
3 M/SEC. 270°
REL TO TRANSE 91°
7 M/SEC. 272°
REL TO TRANSE 94°
5 M/SEC. 265°
REL TO TRANSE 94°
6 M/SEC. 268°
REL TO TRANSE 93°
6 M/SEC. 270°
REL TO TRANSE 95°
CNC IN 10³CM⁻³

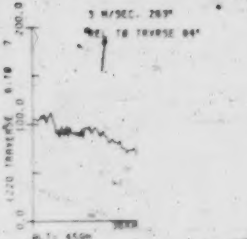

12 M/SEC. 280°
REL TO TRVRSE 101°
5 M/SEC. 270°
REL TO TRVRSE 91°
7 M/SEC. 272°
REL TO TRVRSE 94°
5 M/SEC. 261°
REL TO TRVRSE 84°
6 M/SEC. 259°
REL TO TRVRSE 82°
M/SEC. 275°
REL TO TRVRSE 98°
CHARGE IN MILLIVOLTS
MAP 14

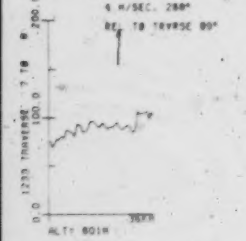

12 M/SEC. 280°
REL TO TRANSE 101°
3 M/SEC. 270°
REL TO TRANSE 81°
7 M/SEC. 272°
REL TO TRANSE 94°
3 M/SEC. 263°
REL TO TRANSE 84°
4 M/SEC. 268°
REL TO TRANSE 89°
4 M/SEC. 275°
REL TO TRANSE 96°
BSCAT IN 10⁻⁵M⁻¹
MAP 14

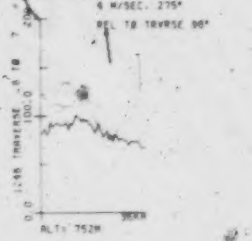






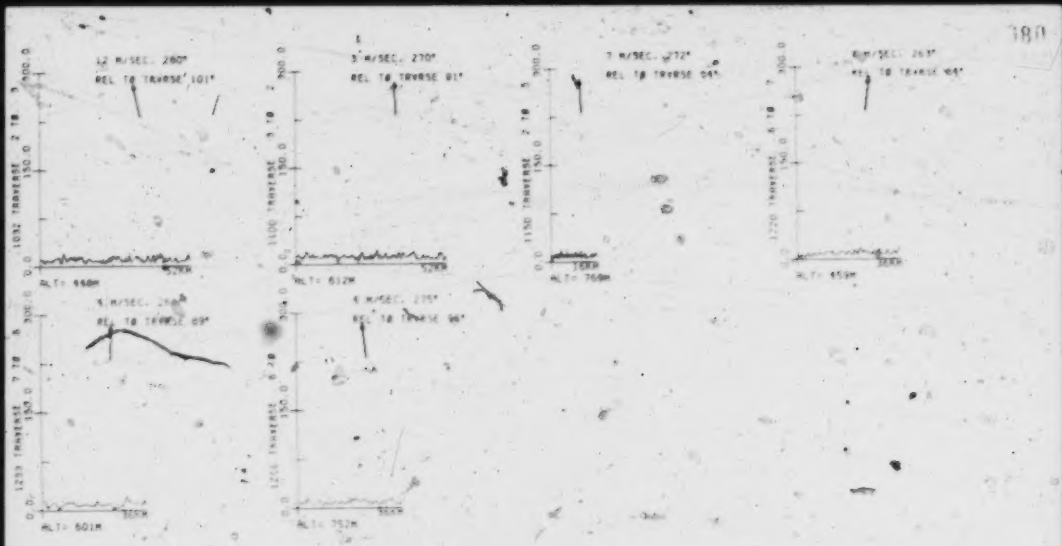






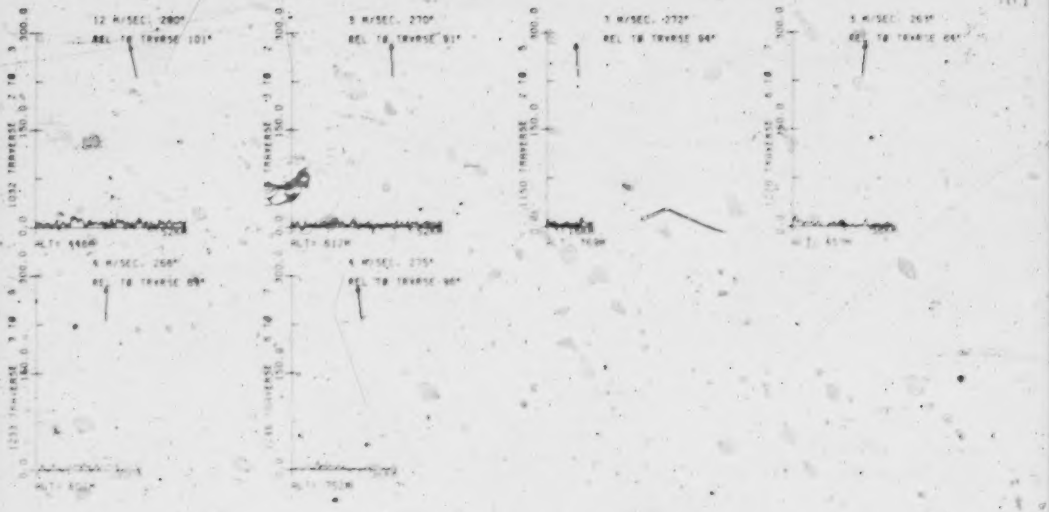
03 IN P.P.B.

MAP 14



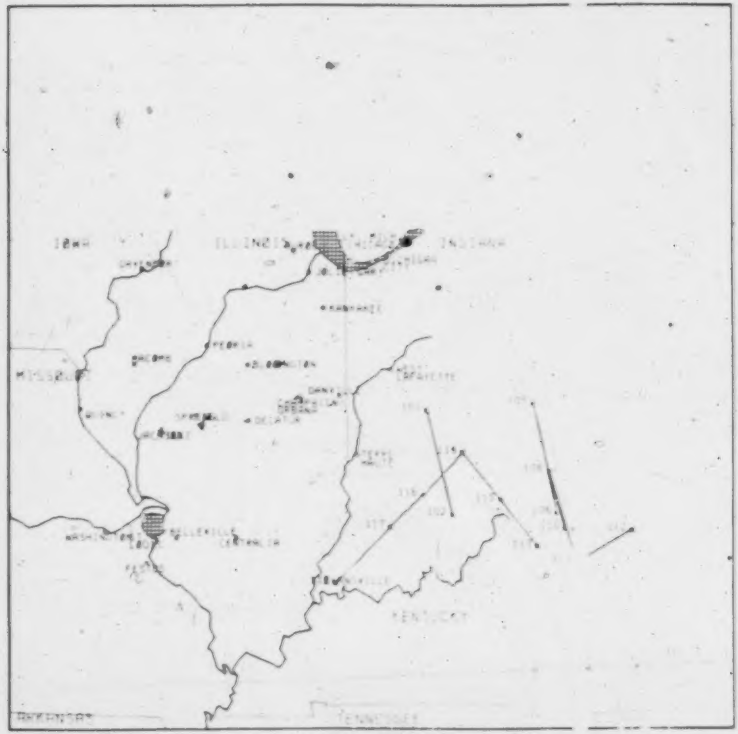
NØ IN P.P.B.

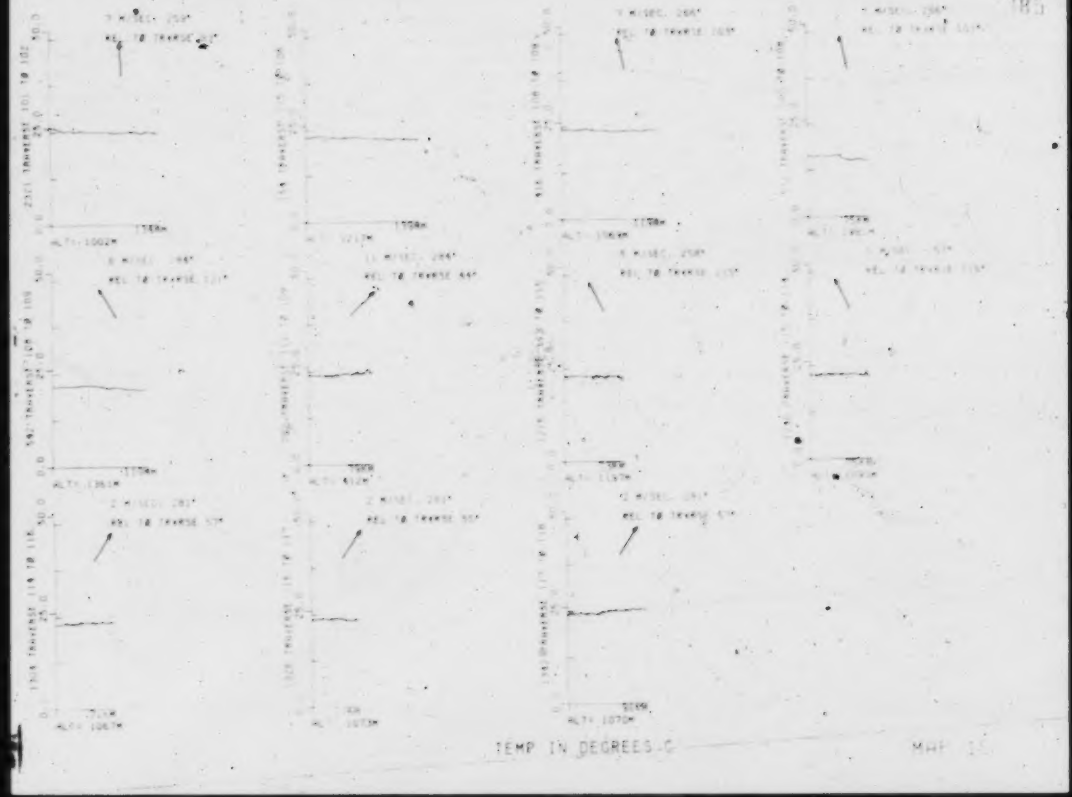
MAP 14

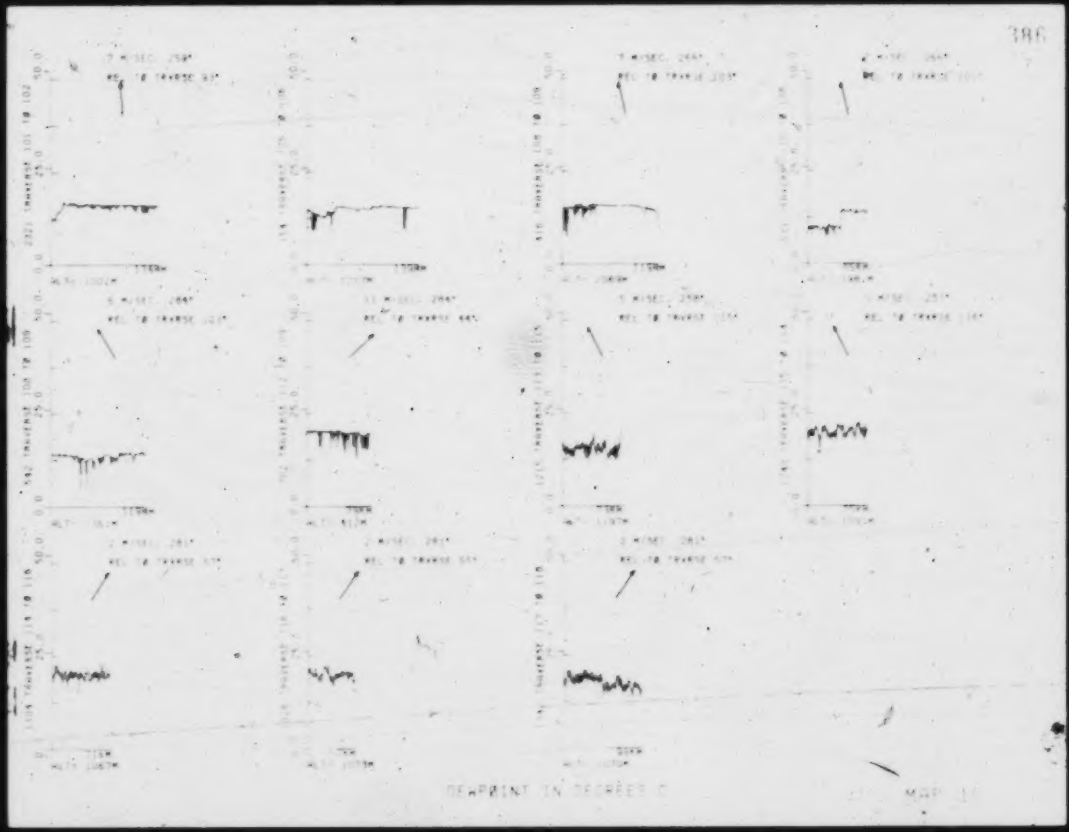


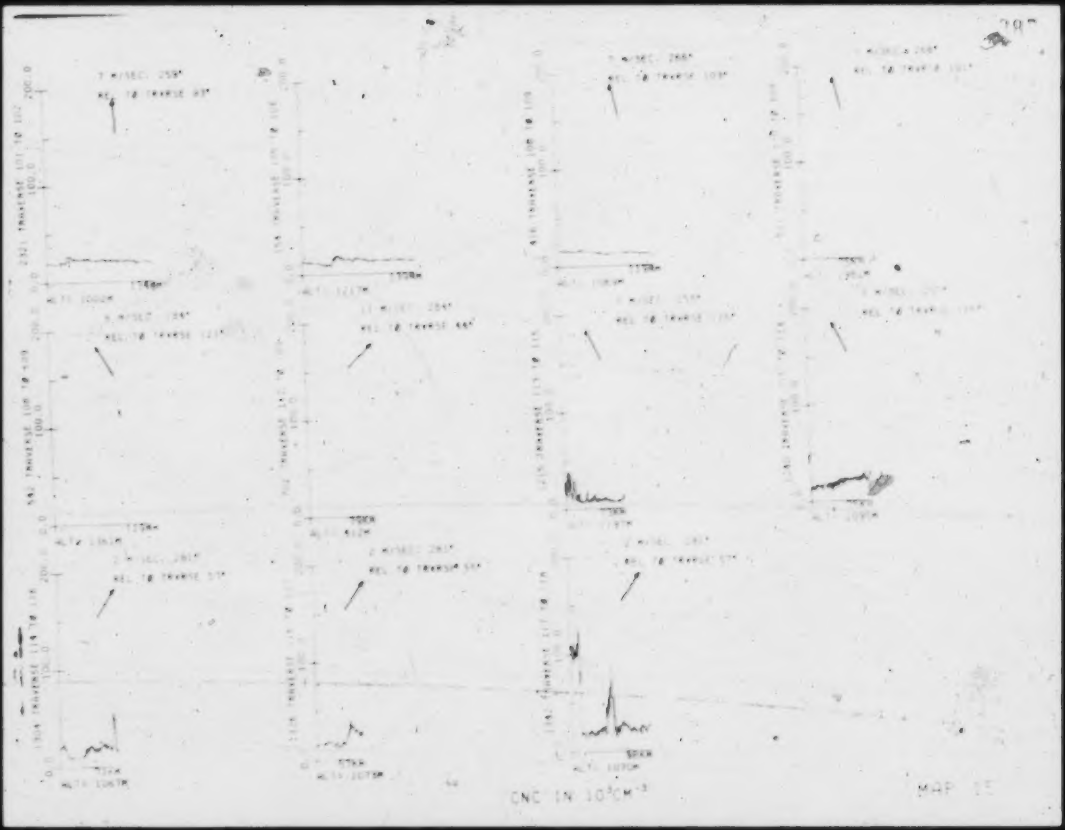
N02 IN P.P.B.

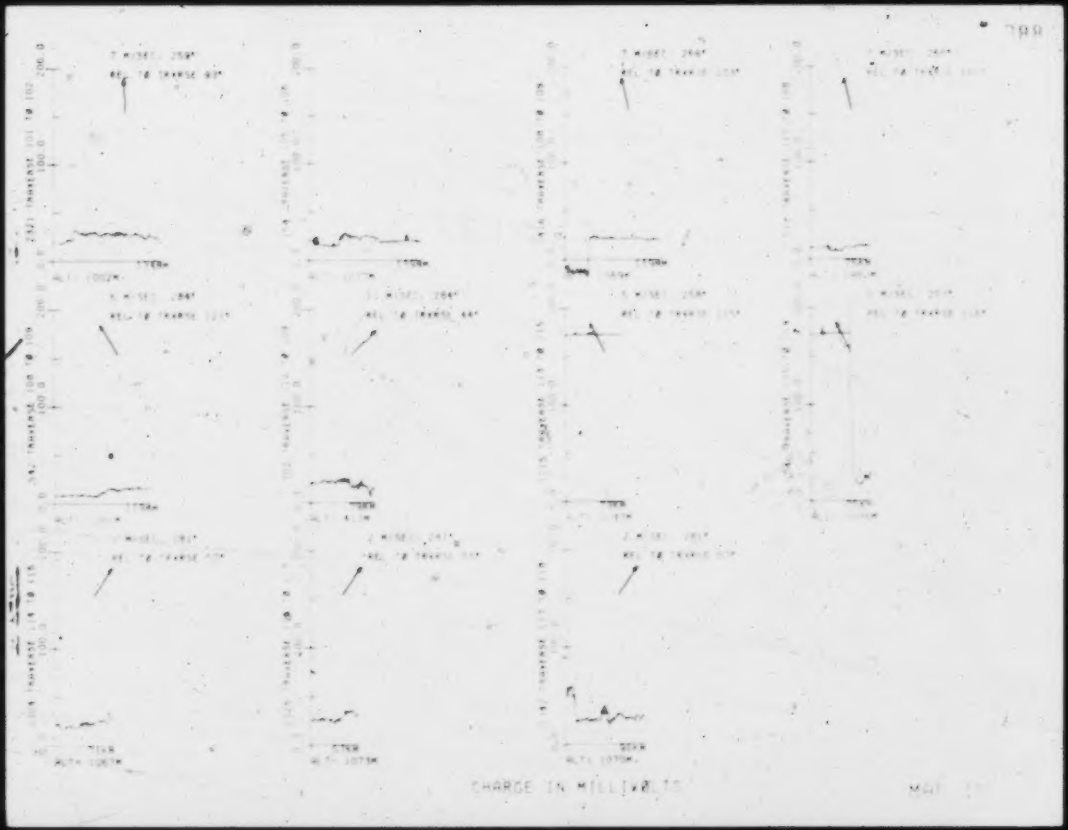
MAR 14

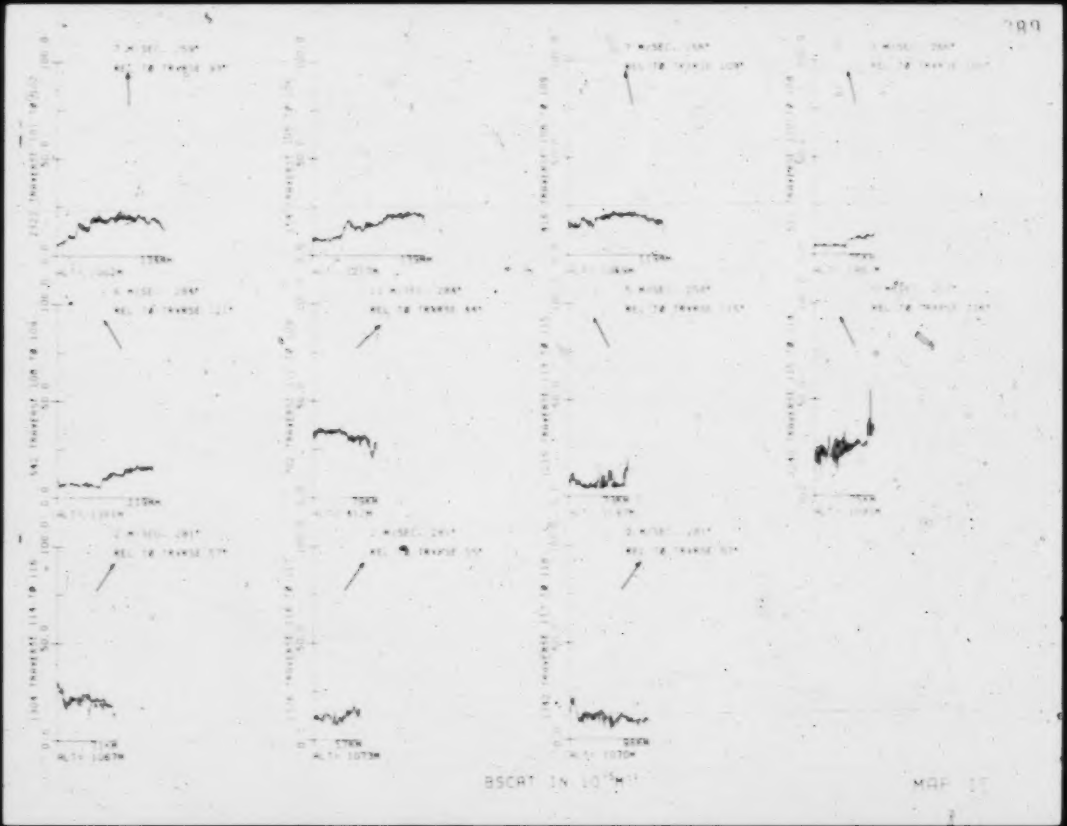


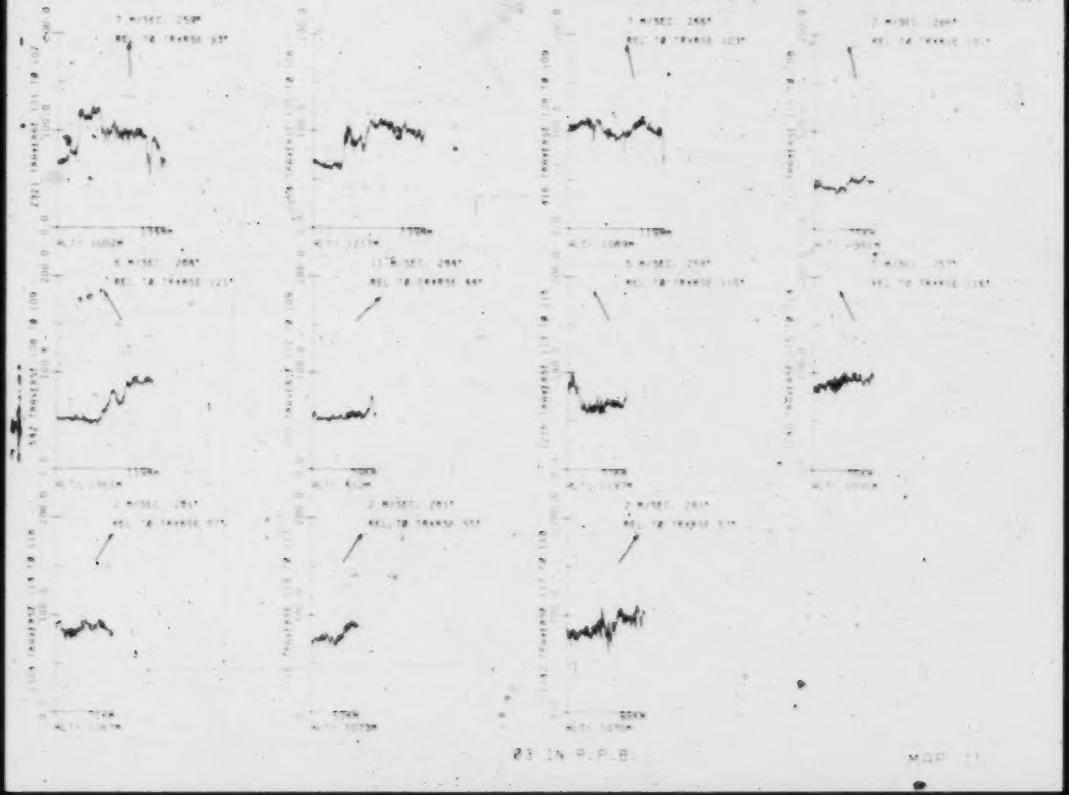

TEMP IN DEGREES C

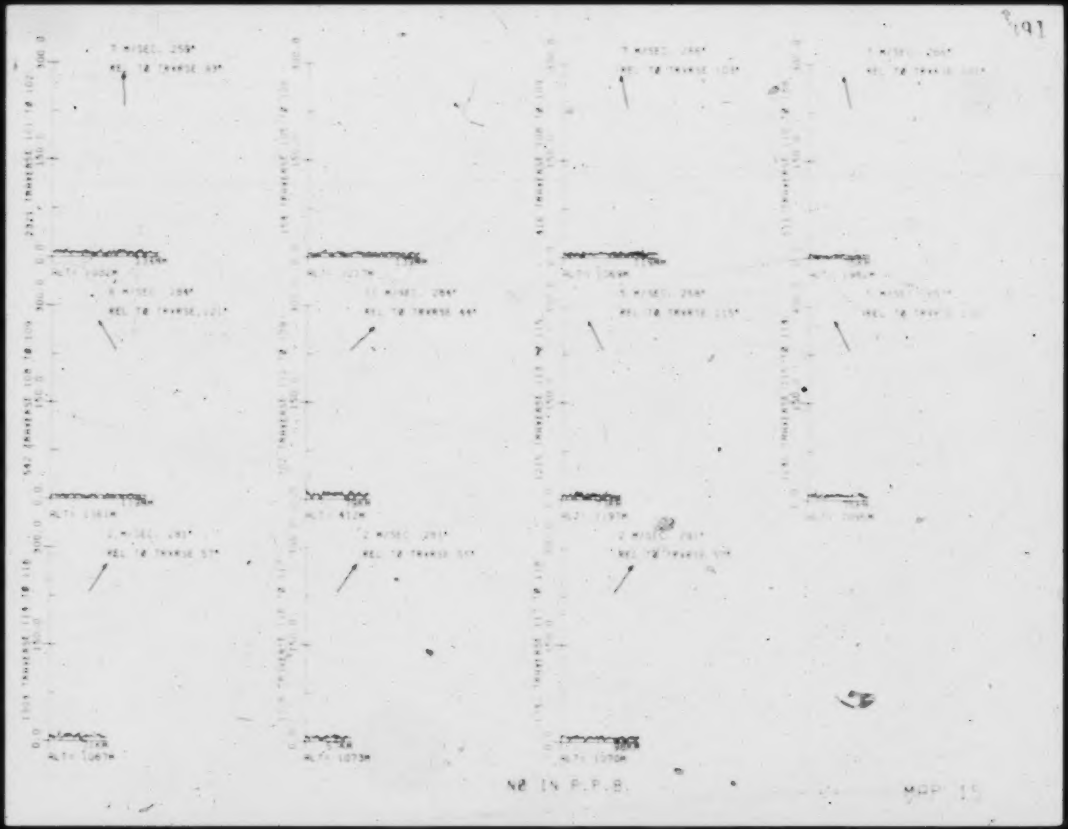

DEARPRINT IN DEGREES C


CNC IN $10^3 CM^{-3}$

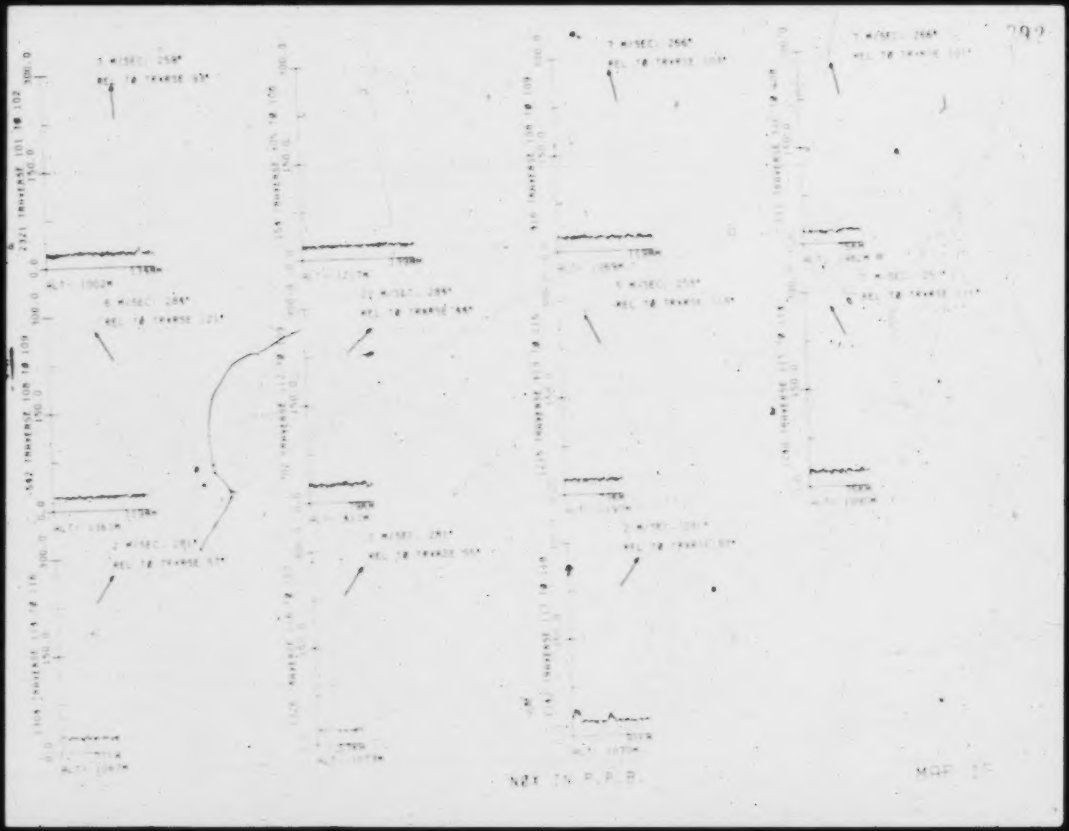

CHARGE IN MILLIVOLTS

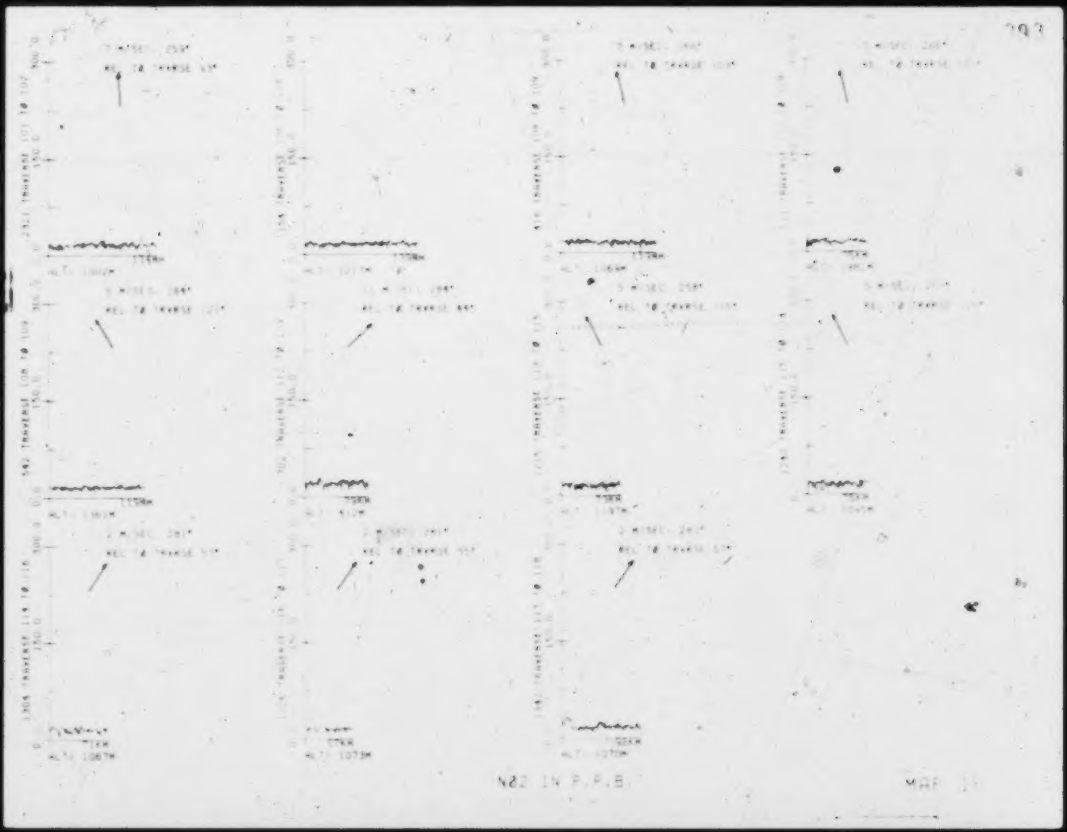

BSCAT IN 10⁻⁶ M⁻¹



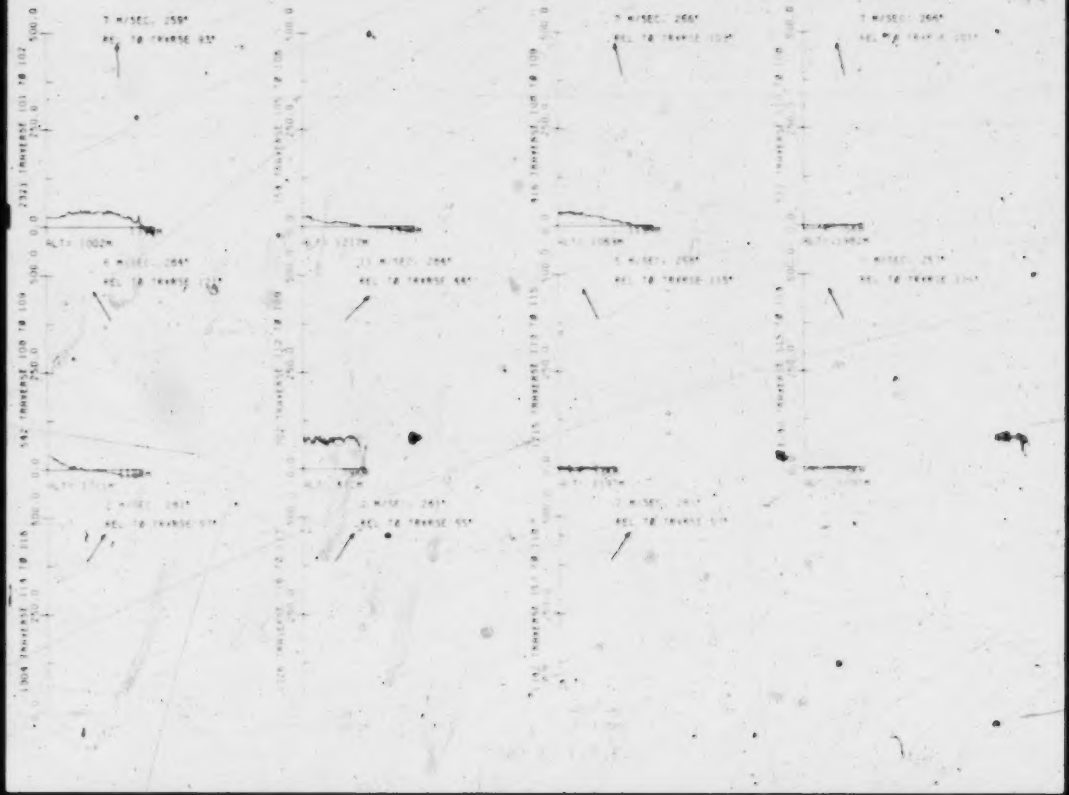


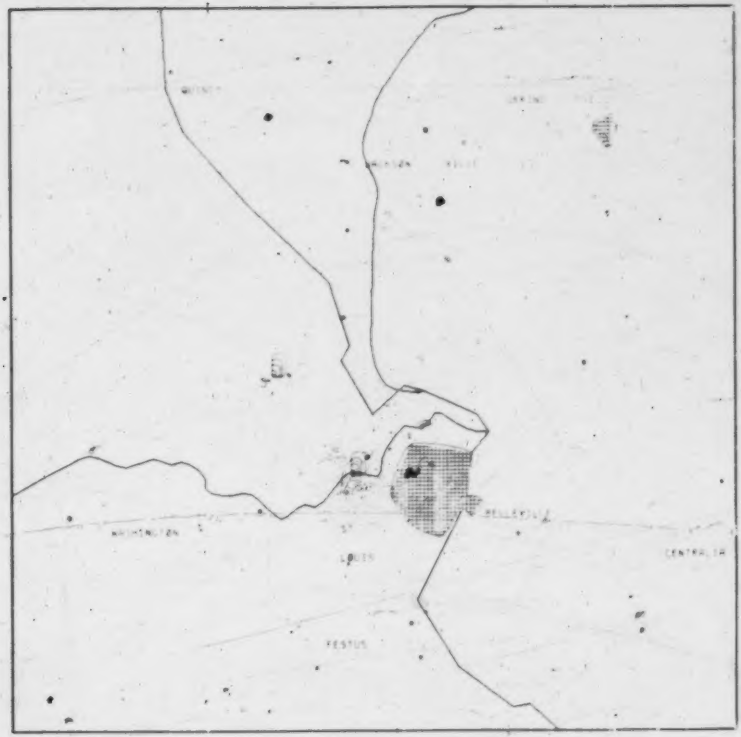
NO IN P.P.B.

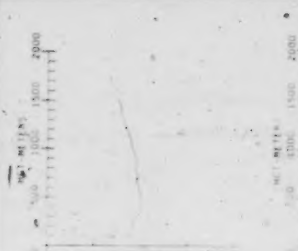




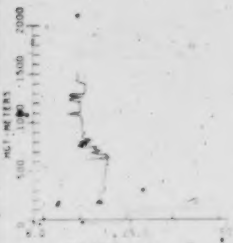
KENTUCKY

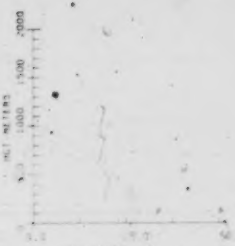



LOUIS
FESTUS

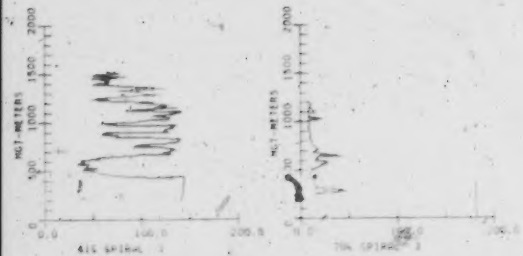


TEMP IN DEGREES C



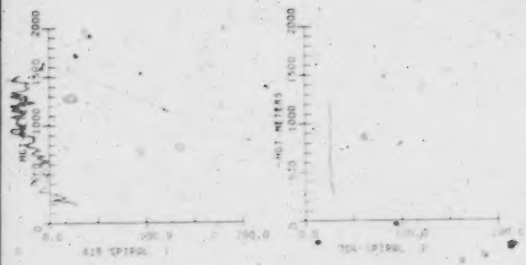


DEWPOINT IN DEGREES C

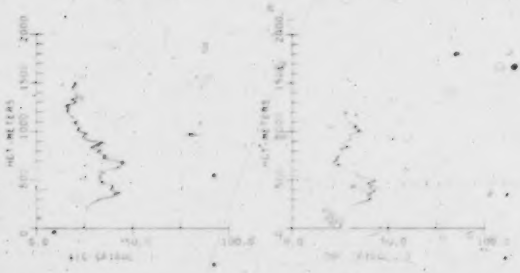


ENC IN $10^3 CM^{-3}$

MAP 13

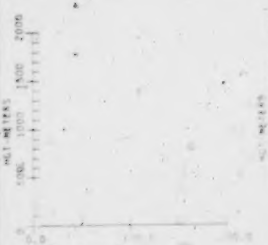


CHARGE IN MILLIVOLTS

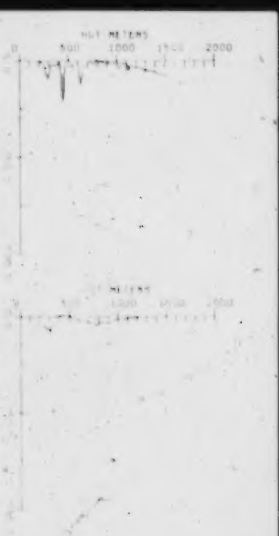


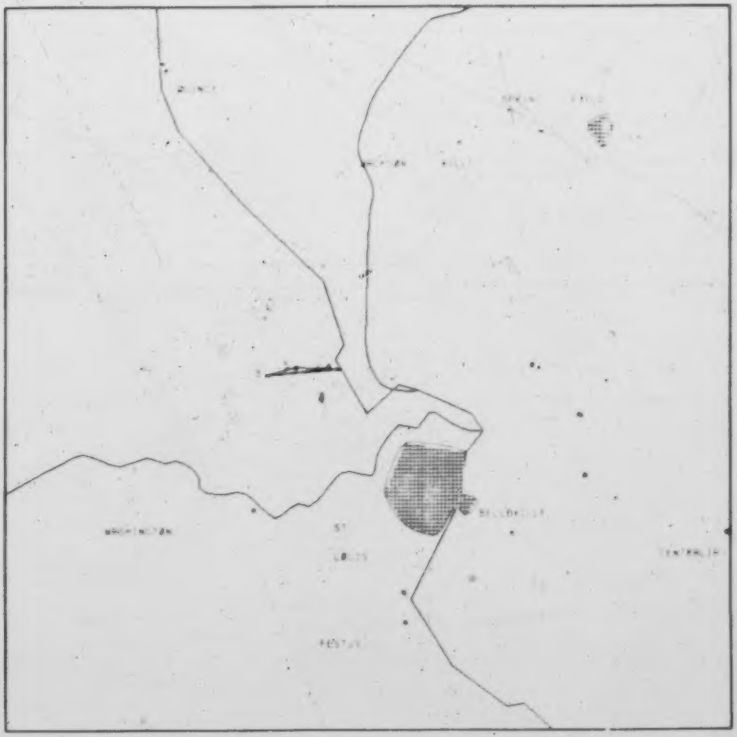
BSCAT IN 10^{-} M^{-1}

MAY

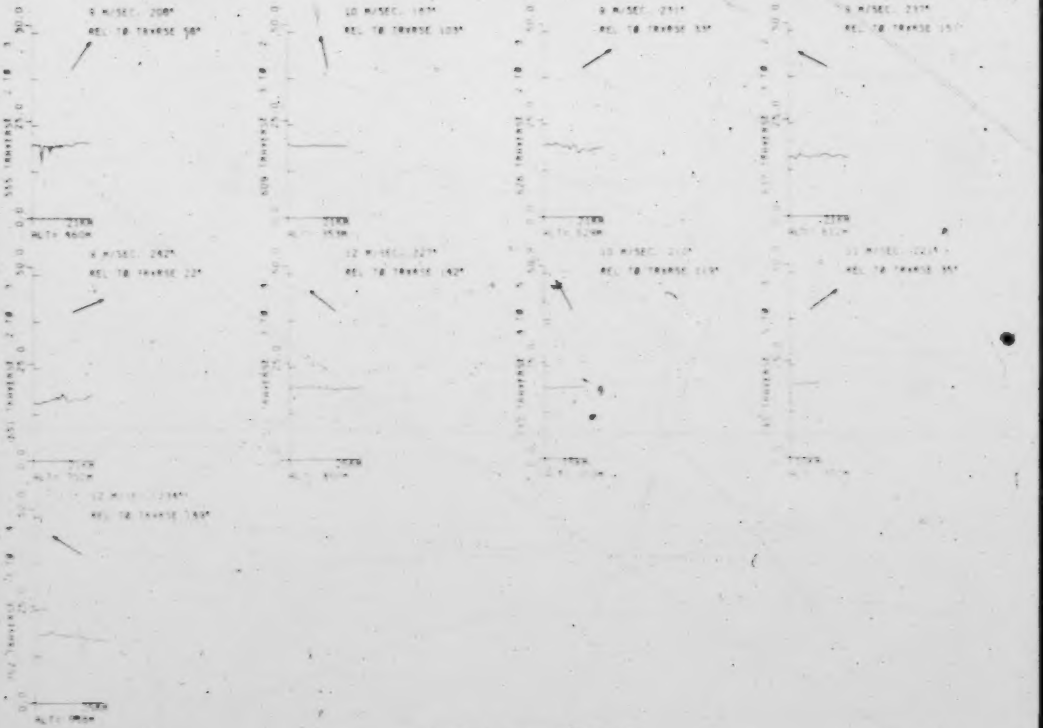

METRES
500
1000
1500
2000

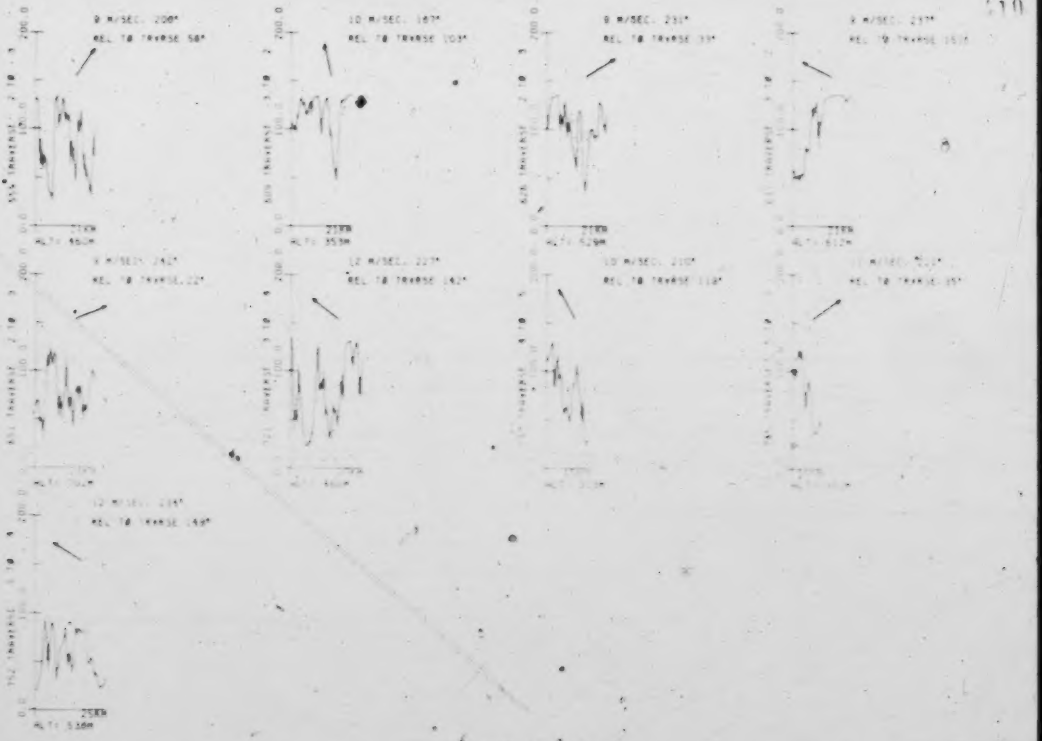
METRES
500
1000
1500
2000

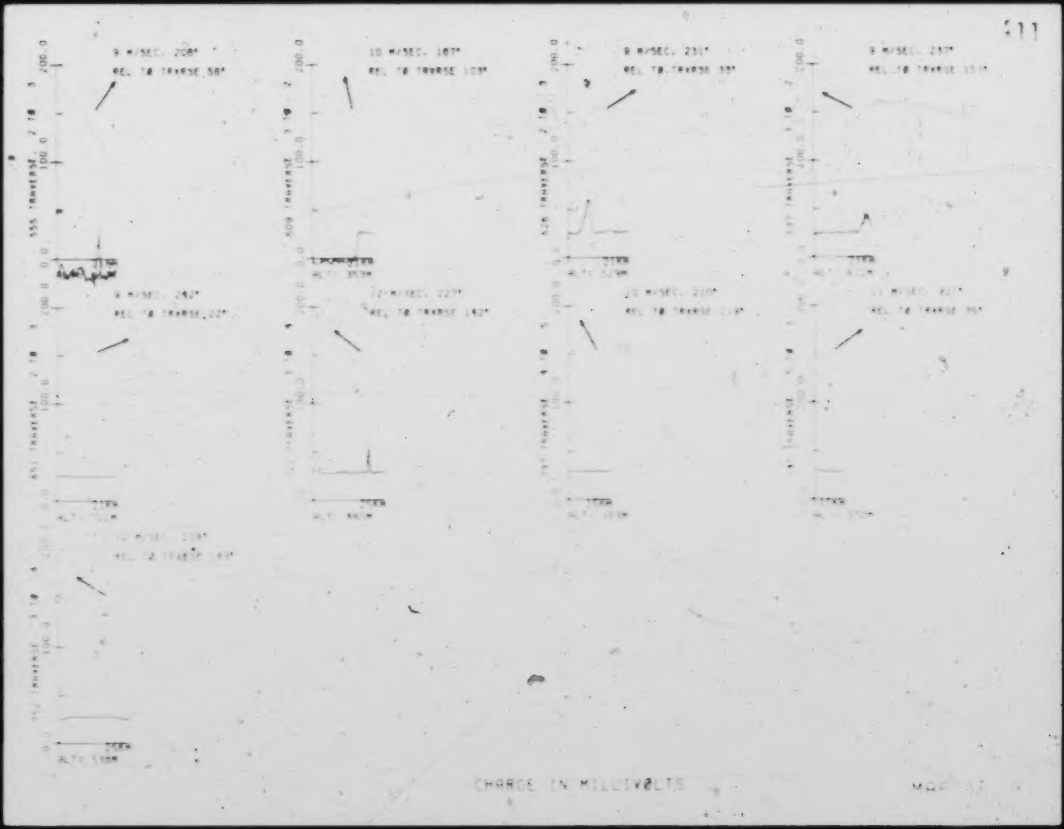

METERS
0
500
1000
1500
2000
METERS
0
500
1000
1500
2000



TEMP IN DEGREES C


DEWPOINT IN DEGREES C


9 M/SEC. 208°
REL TO TRANSE 58°
10 M/SEC. 107°
REL TO TRANSE 103°
9 M/SEC. 231°
REL TO TRANSE 33°
9 M/SEC. 257°
REL TO TRANSE 151°
8 M/SEC. 242°
REL TO TRANSE 22°
10 M/SEC. 227°
REL TO TRANSE 142°
10 M/SEC. 210°
REL TO TRANSE 118°
REL TO TRANSE 35°
12 M/SEC. 234°
REL TO TRANSE 146°
25KB
ALT: 5.16M
CNC IN 10²CM⁻³
MAP 15


9 M/SEC. 208°
REL. TO TRANSE. 58°
10 M/SEC. 187°
REL. TO TRANSE 103°
9 M/SEC. 231°
REL. TO TRANSE 35°
9 M/SEC. 237°
REL. TO TRANSE 15°
9 M/SEC. 262°
REL. TO TRANSE. 22°
10 M/SEC. 227°
REL. TO TRANSE 142°
10 M/SEC. 210°
REL. TO TRANSE 124°
11 M/SEC. 217°
REL. TO TRANSE 75°
CHANGE IN MILLIVOLTS

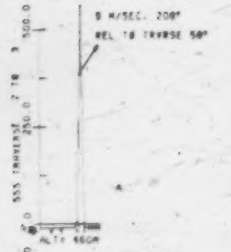
9 M/SEC. 208°
REL TO TRANSE 58°
10 M/SEC. 167°
REL TO TRANSE 108°
9 M/SEC. 231°
REL TO TRANSE 13°
9 M/SEC. 242°
REL TO TRANSE 142°
12 M/SEC. 227°
REL TO TRANSE 142°
12 M/SEC. 214°
REL TO TRANSE 14°
25KB
ALT: 550m
25KB
ALT: 538m
BSCAT IN 10⁻⁴M⁻¹
MAP 16

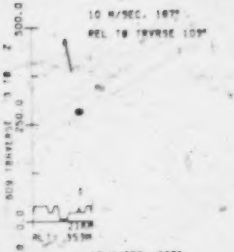
8 M/SEC. 208°
REL TO TRANSEC 58°
10 M/SEC. 187°
REL TO TRANSEC 103°
8 M/SEC. 251°
REL TO TRANSEC 33°
8 M/SEC. 264°
REL TO TRANSEC 22°
12 M/SEC. 210°
REL TO TRANSEC 142°
12 M/SEC. 210°
REL TO TRANSEC 110°
ALT: 465M
ALT: 515M
ALT: 530M
TRANSEC

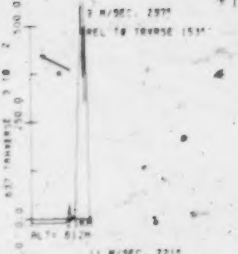
9 M/SEC. 208°
REL TO TRANSE 58°
10 M/SEC. 197°
REL TO TRANSE 105°
9 M/SEC. 231°
REL TO TRANSE 33°
9 M/SEC. 237°
REL TO TRANSE 151°
ALT: 460M
ALT: 355M
ALT: 539M
ALT: 611M
REL TO TRANSE 22°
REL TO TRANSE 262°
REL TO TRANSE 118°
REL TO TRANSE 35°
ALT: 533M

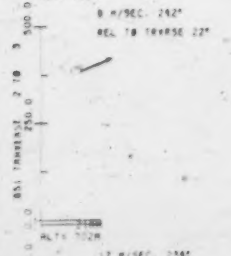
N82 IN P.P.B.

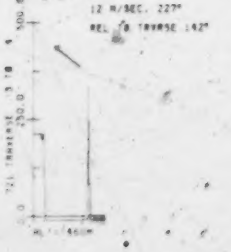
MAP 16







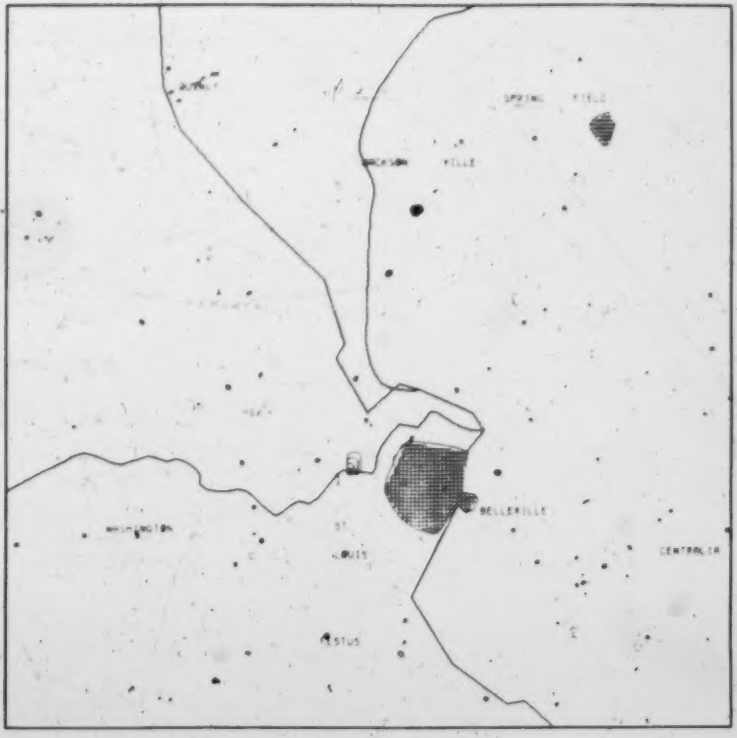


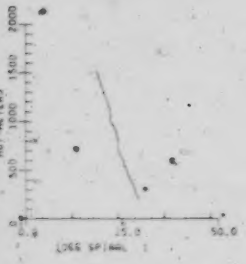


SEE IN P.P.B. MAP 1

6347277g

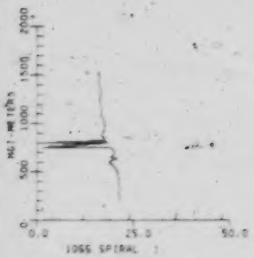
MAP 14





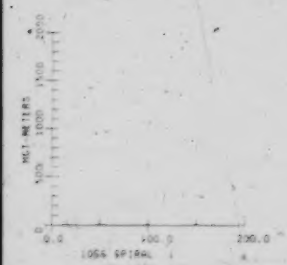
TEMP IN DEGREES C

MAP 14



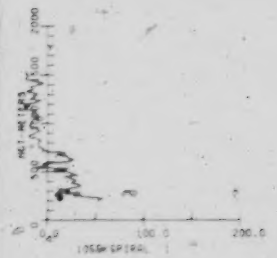
DEWPOINT IN DEGREES C

MAP 14



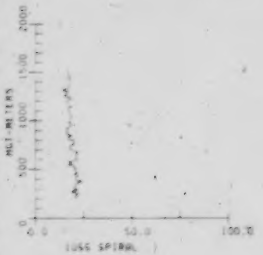
CNC IN $10^{9}CM^{-3}$

MAP 14



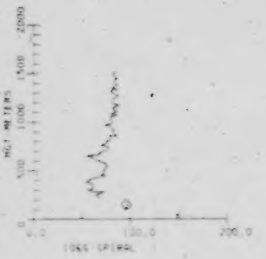
CHARGE IN MILLIVOLTS

MAP 14



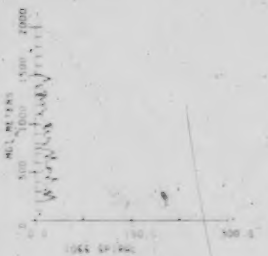
BSCAT IN $10^{-5}M^{-1}$

MAP 14



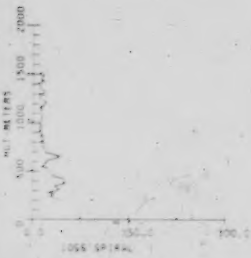
23 IN P.P.B.

MAP 14

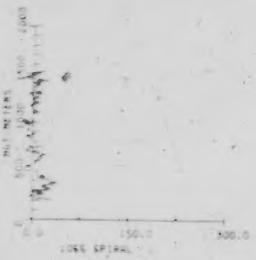


NØ IN P.P.B.

MAY 14

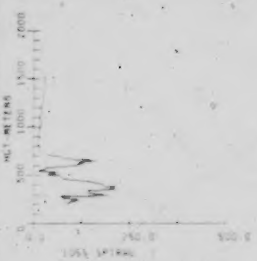


NOT IN P.P.B.



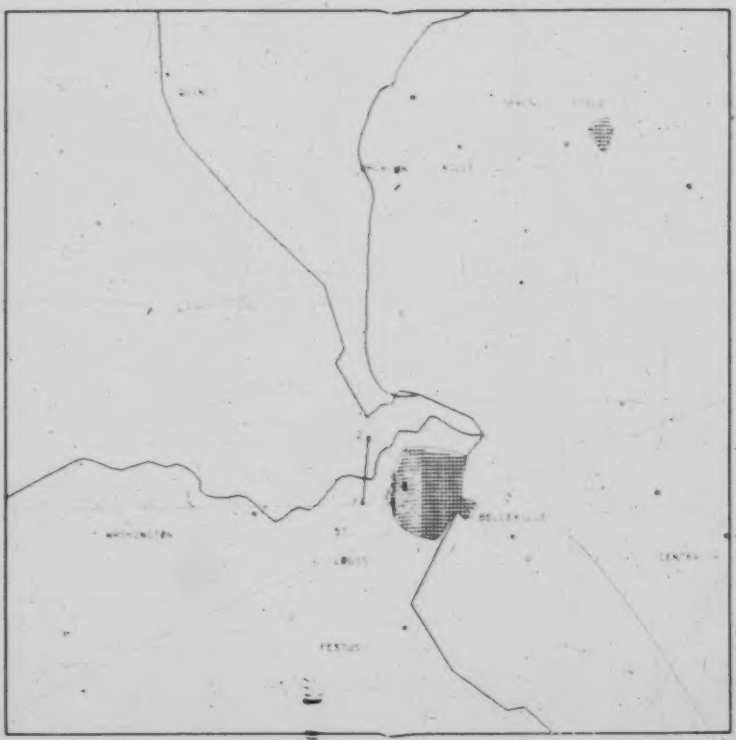
NØ2 IN P.P.B.

MAP 14



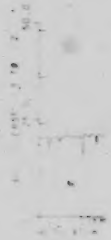
S22 IN P.P.B.

MAP 14



TEMP IN DEGREES C

MAP 17

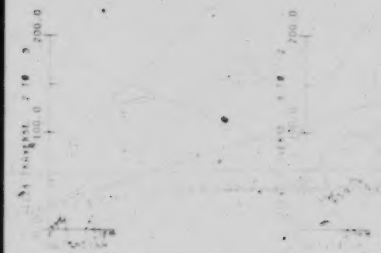


DEWPOINT IN DEGREES C

MAP 17

CNC IN $10^3 CM^{-3}$

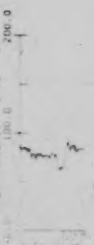
MAP 17



CHARGE IN MILLIVOLTS

MAP 17

BSCAT (X 10⁻⁴ m⁻¹)
MAP 17

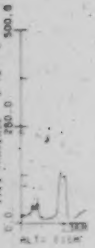


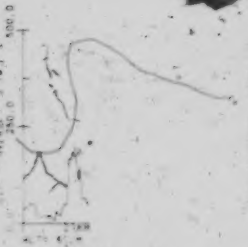
NS IN P.P.B.

MAP 17

NBX IN P.P.B.

MAP 17



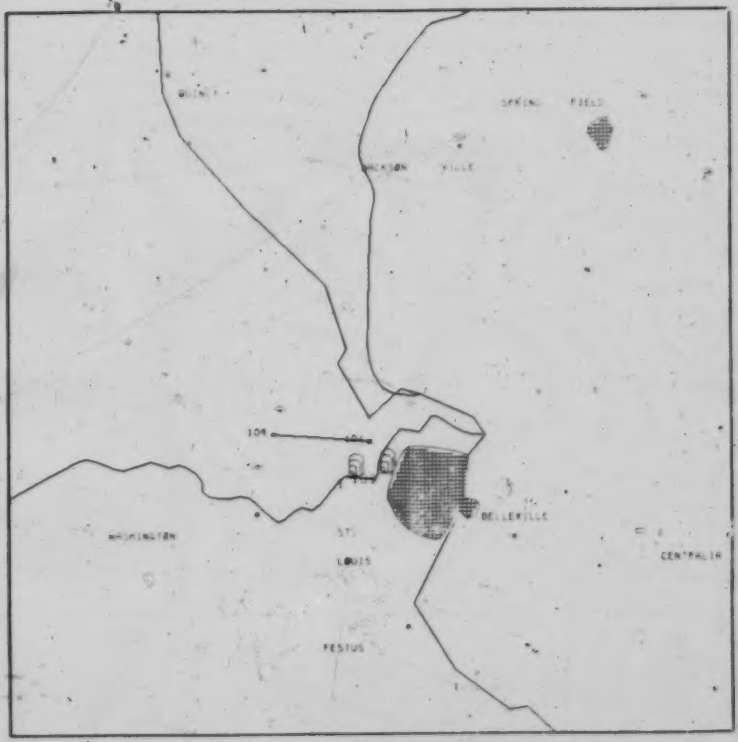


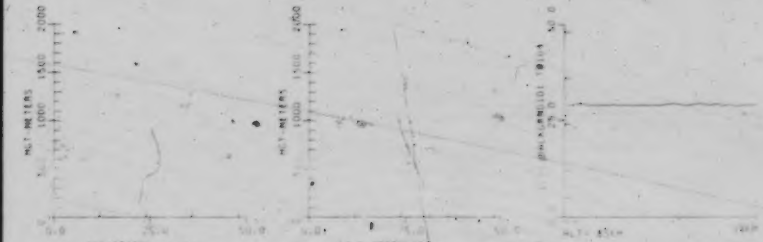
S&2 1: P.P.B.

MAP 17

16357876

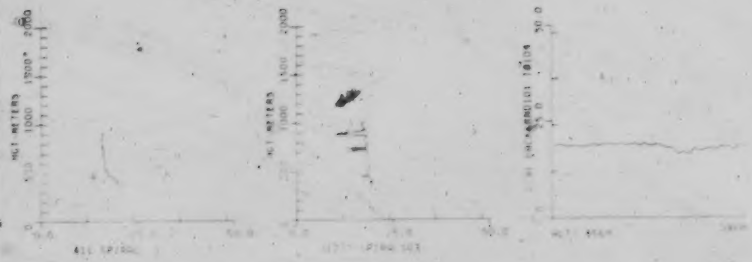
MAP 15





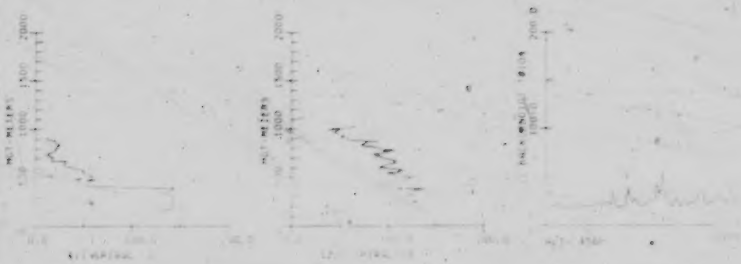
TEMP IN DEGREES C

MAP 1



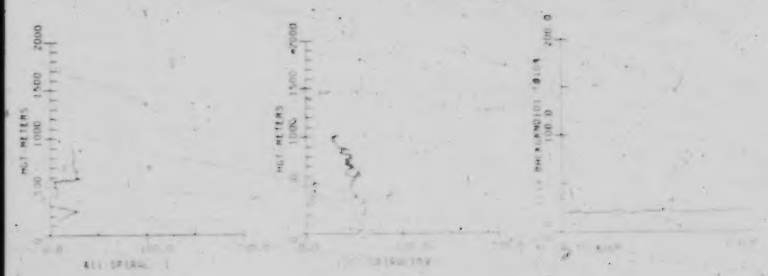
DEWPOINT IN DEGREES C

MAP 15



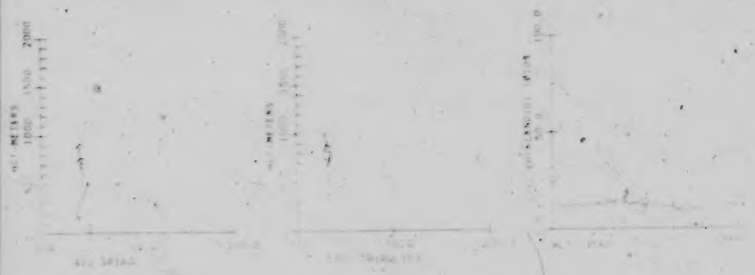
CNC IN $10^{3}/CM^{3}$

MAP 15



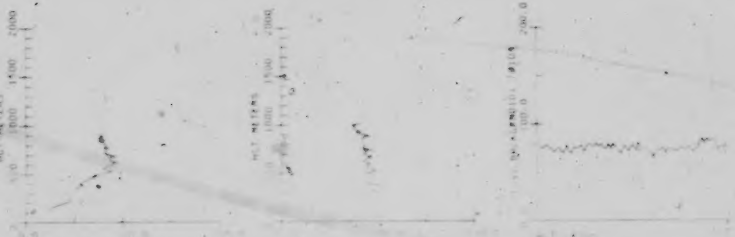
CHARGE IN MILLIVOLTS

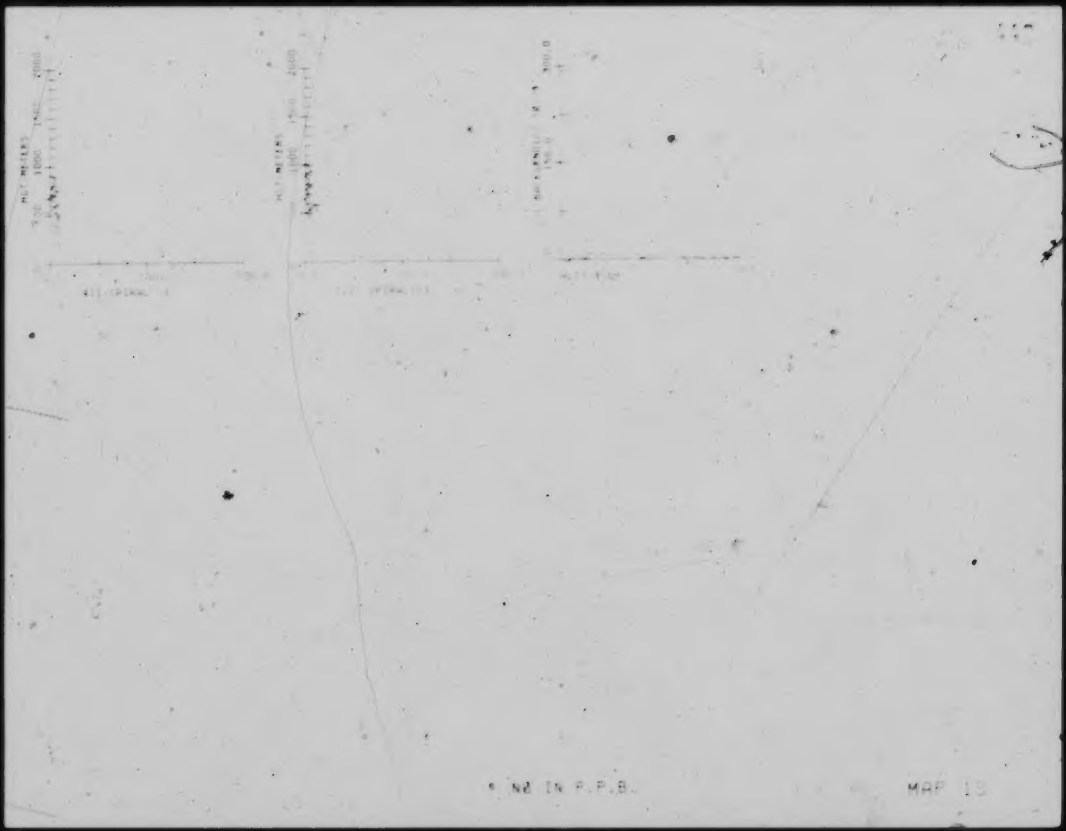
MAP 15

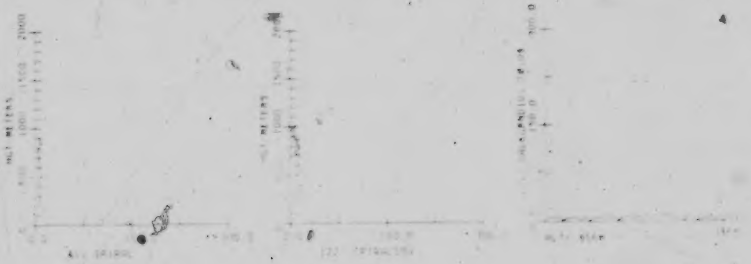


BSCAT IN $10^{-6}M^{-1}$

MAR 1


FEET METERS
500 1000 1500 2000
FEET METERS
500 1000 1500 2000
200.0
100.0


* N2 IN P.P.B.
MAP 19

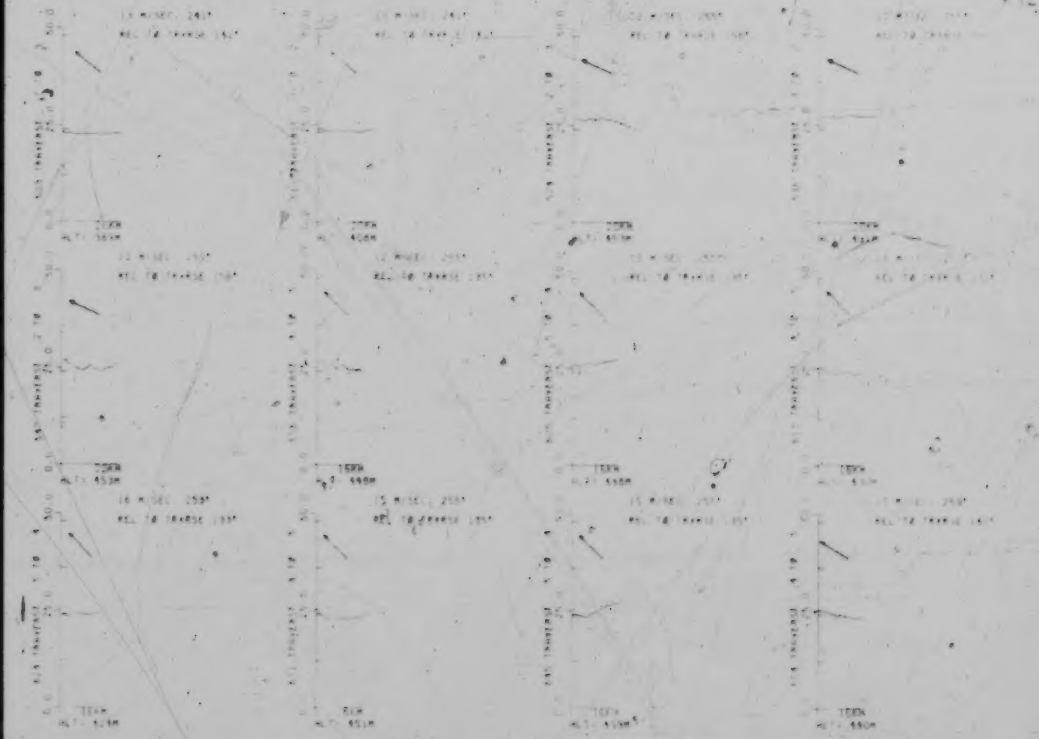


NBS IN P.P.B.

MAR 15

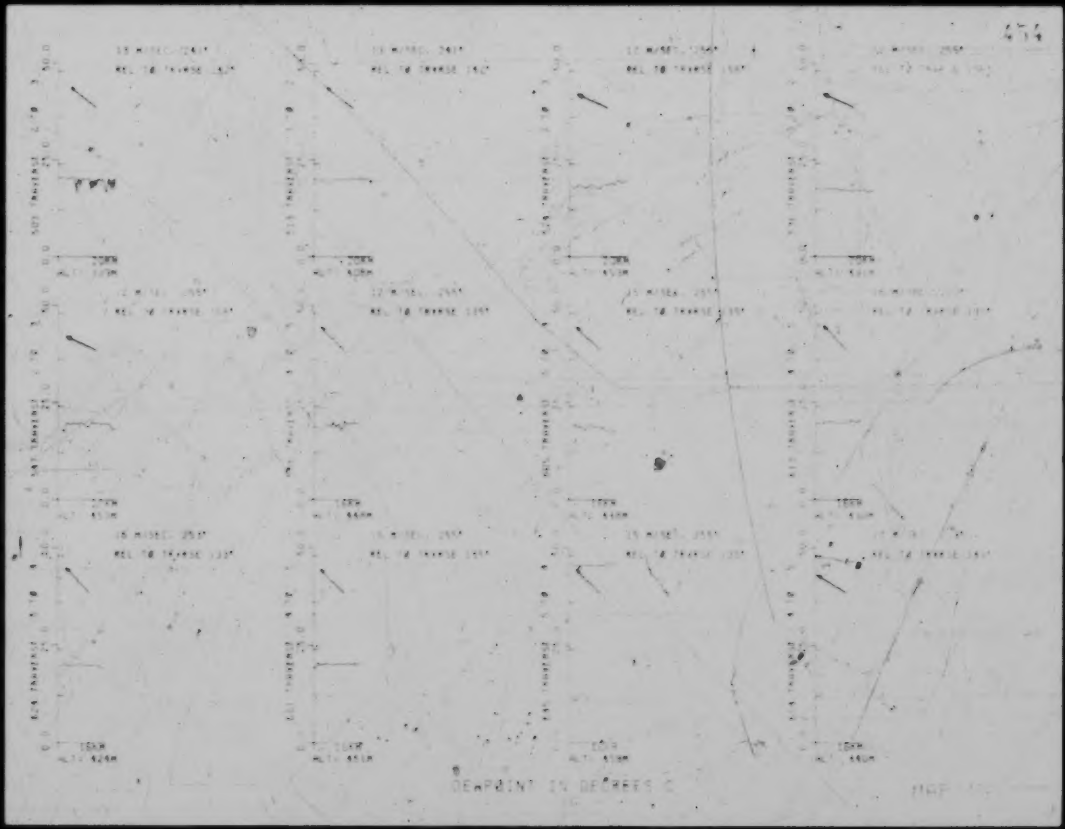
METRES
0
1000
1500
2000
METRES
0
1000
1500
2000
KILOMETRES
0
1000

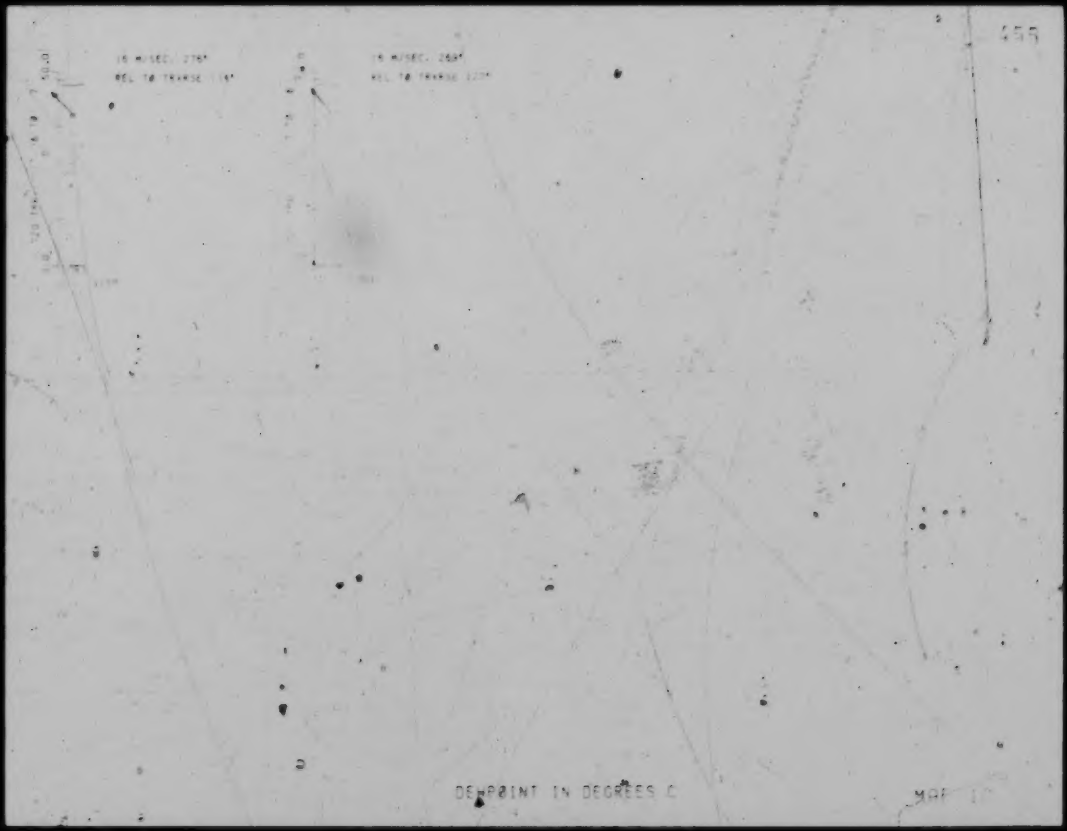
FESTUS

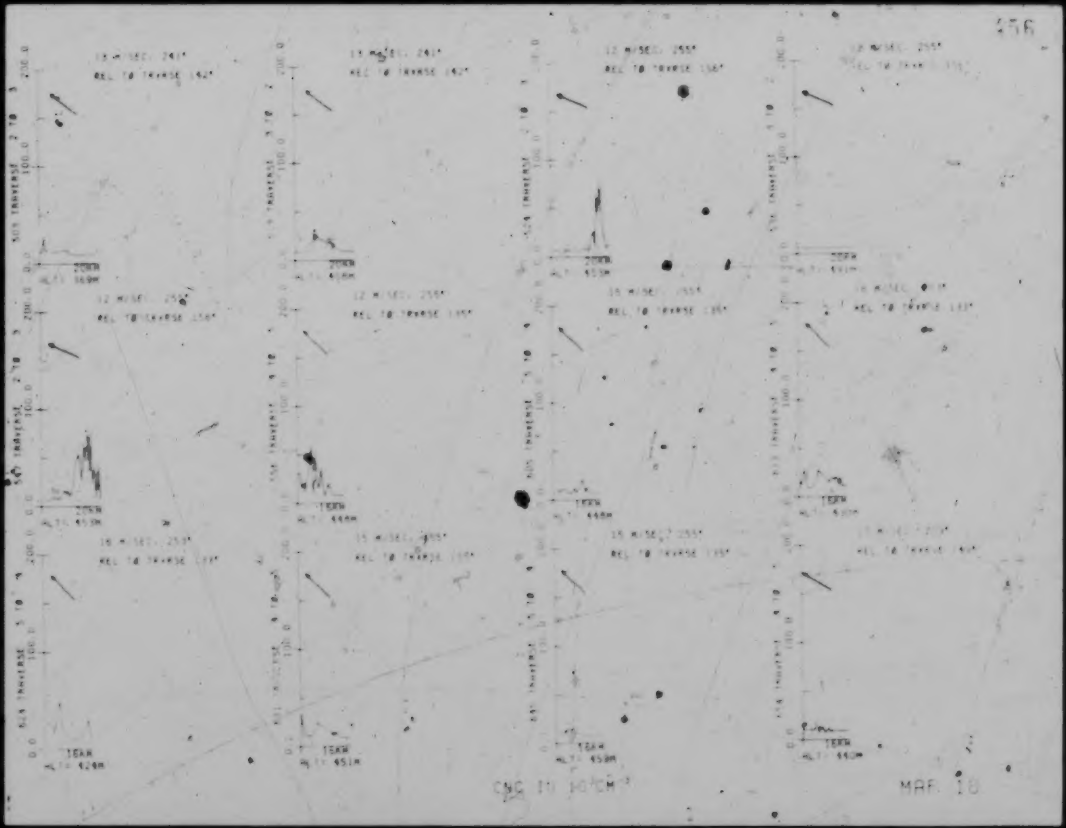


TEMP IN DEGREES C

TEMP IN DEGREES C


DEWPOINT IN DEGREES C

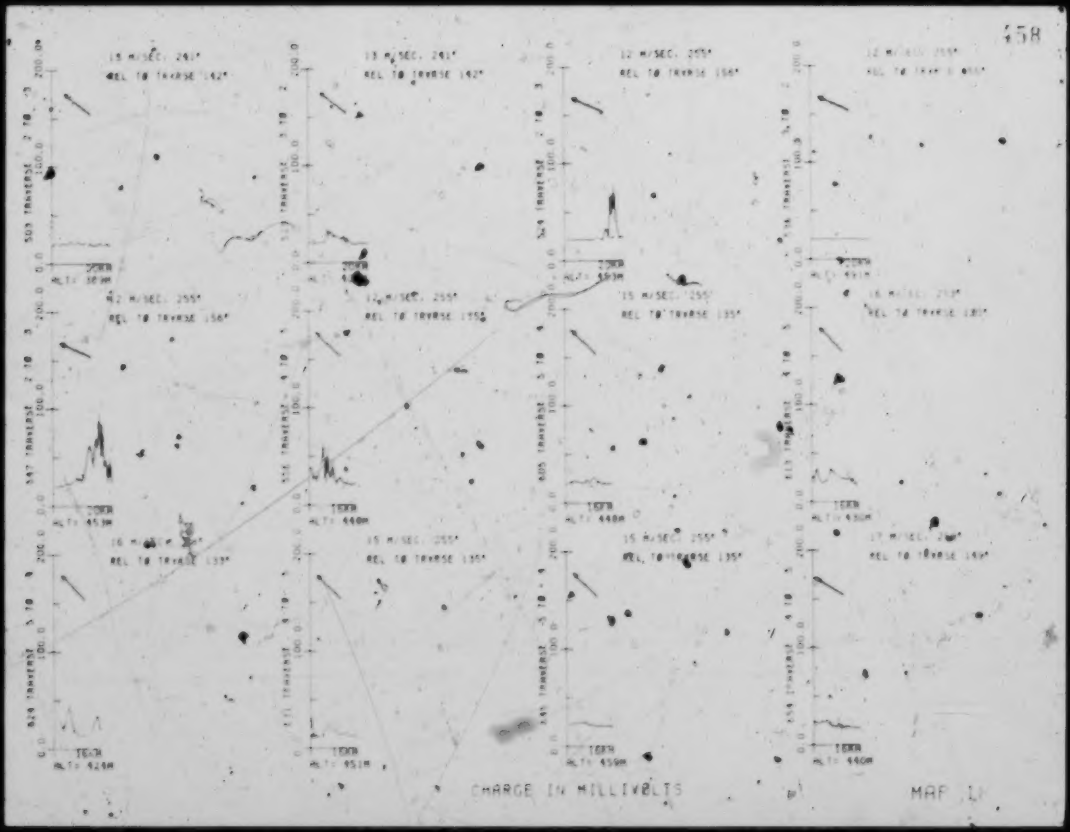

DEWPOINT IN DEGREES C

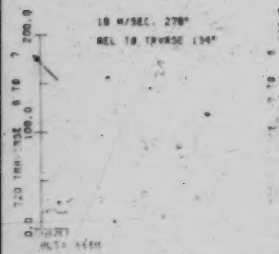


CNC IN MOTION

MAR. 10

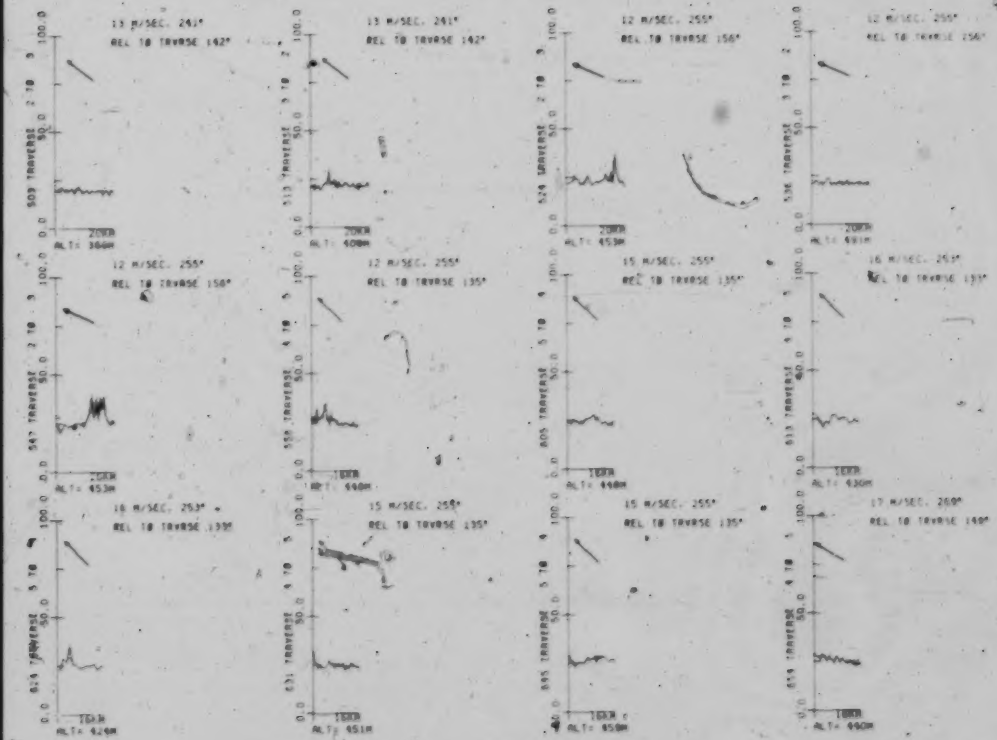
16 M/SEC. 276°
REL TO TRANSE 138°
16 M/SEC. 269°
REL TO TRANSE 137°
CNC IN 10⁵CM⁻³
MAP 17


CHARGE IN MILLIVOLTS
MAP



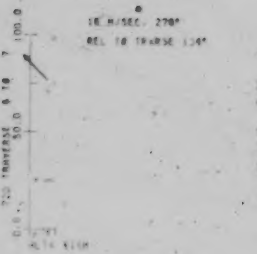
CHARGE IN MILLIVOLTS

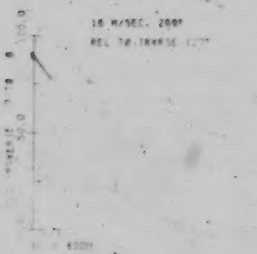
MAP 18



BSCAT IN $10^{-5}M^{-1}$

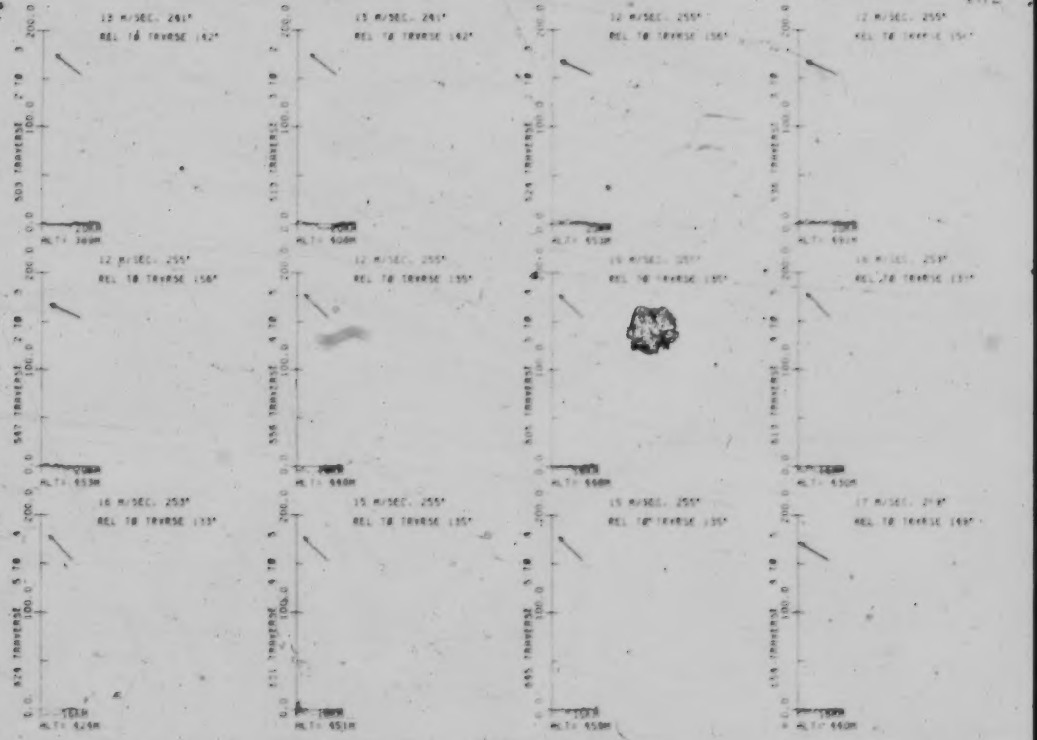
MAP 18





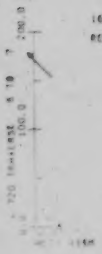
BSCAT IN $10^{-5}M^{-1}$

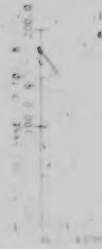
MAF 18



03 IN P.P.B.

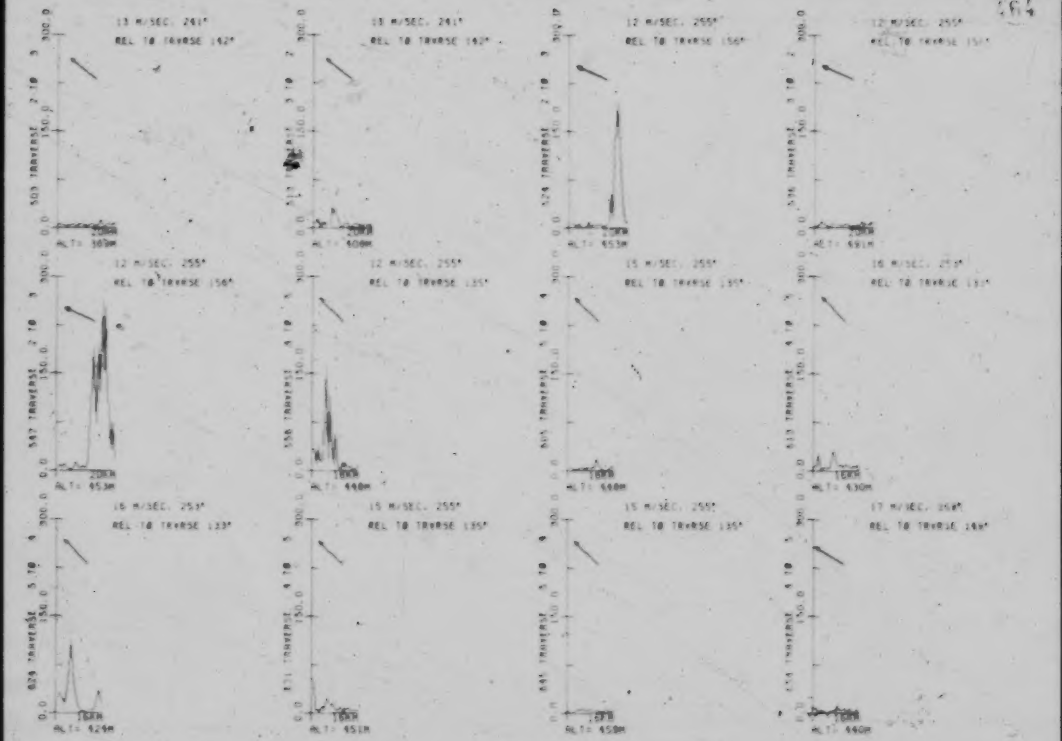
MAP 10





83 IN R.P.B.

MAP 15

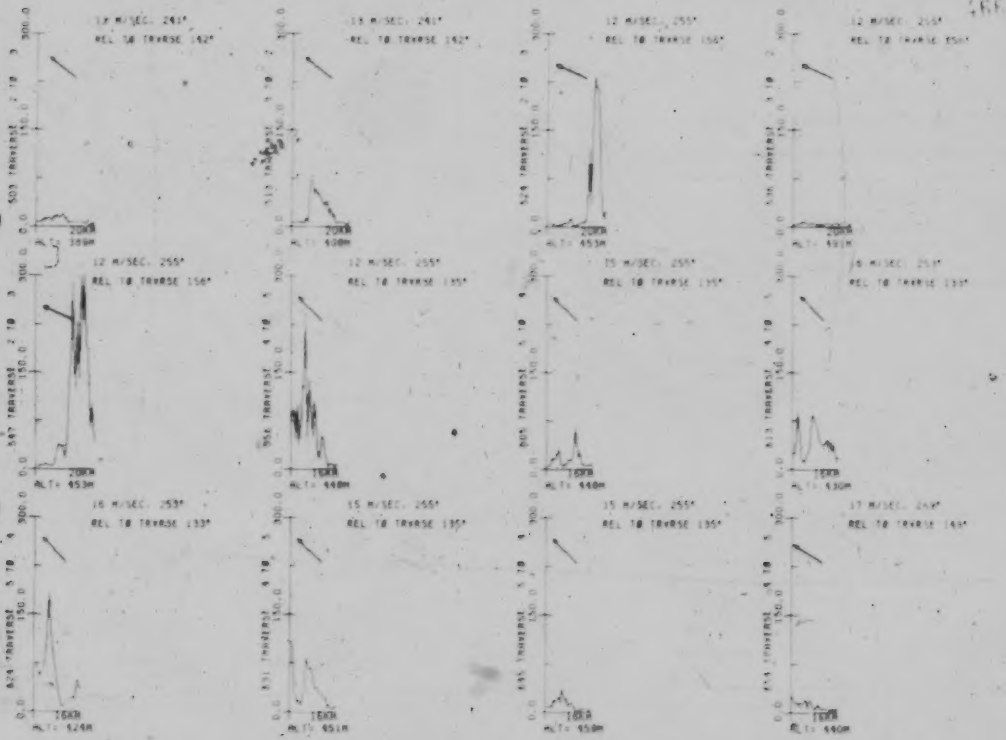


NØ IN P.P.B.

MAP 1P

NØ IN P.P.B.

MAP 1A

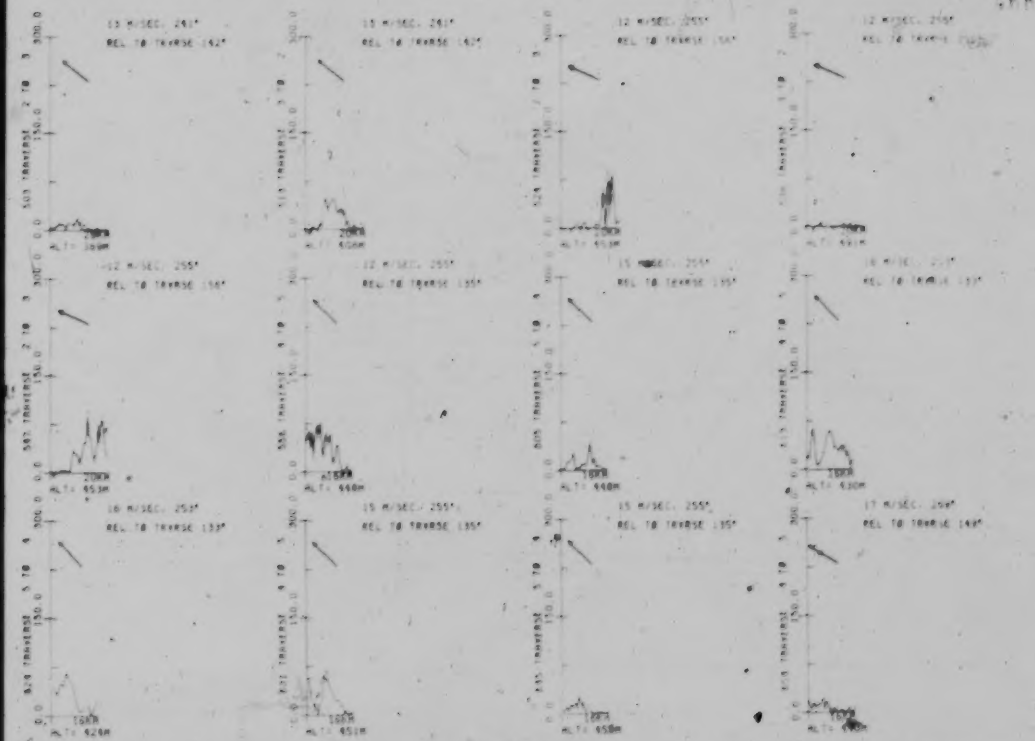


NZX IN P.P.B.

MAP 18

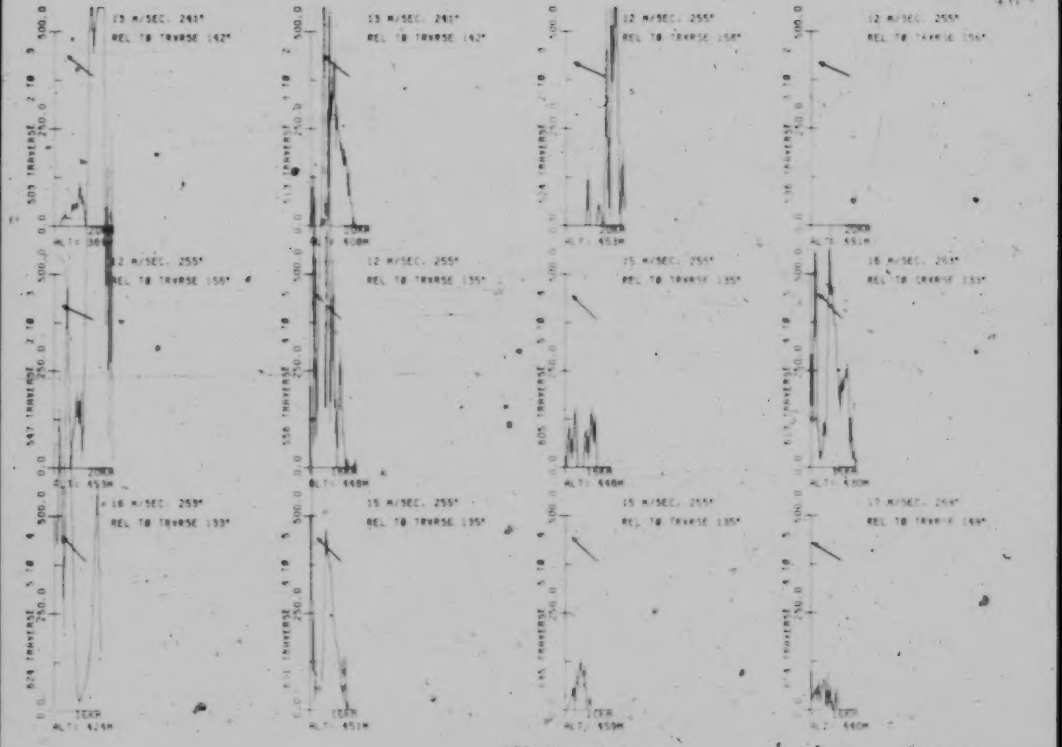
NOX IN P.P.B.

MAP 1



N82 IN P.P.B.

MAP 1

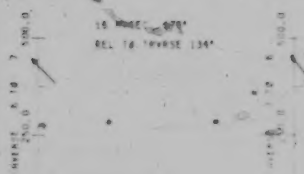


502 IN P.P.B.

MAP 10

N02 IN P.P.B.

MAP 18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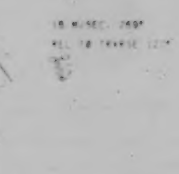
REL TO TRANSE 134°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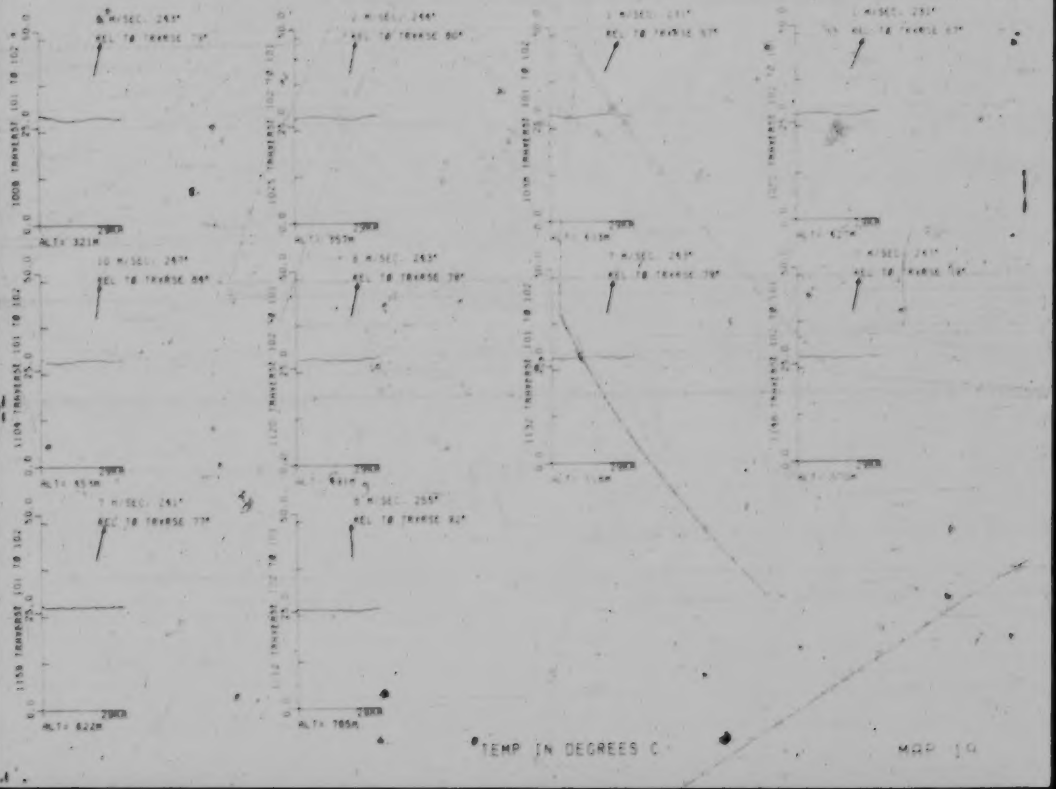
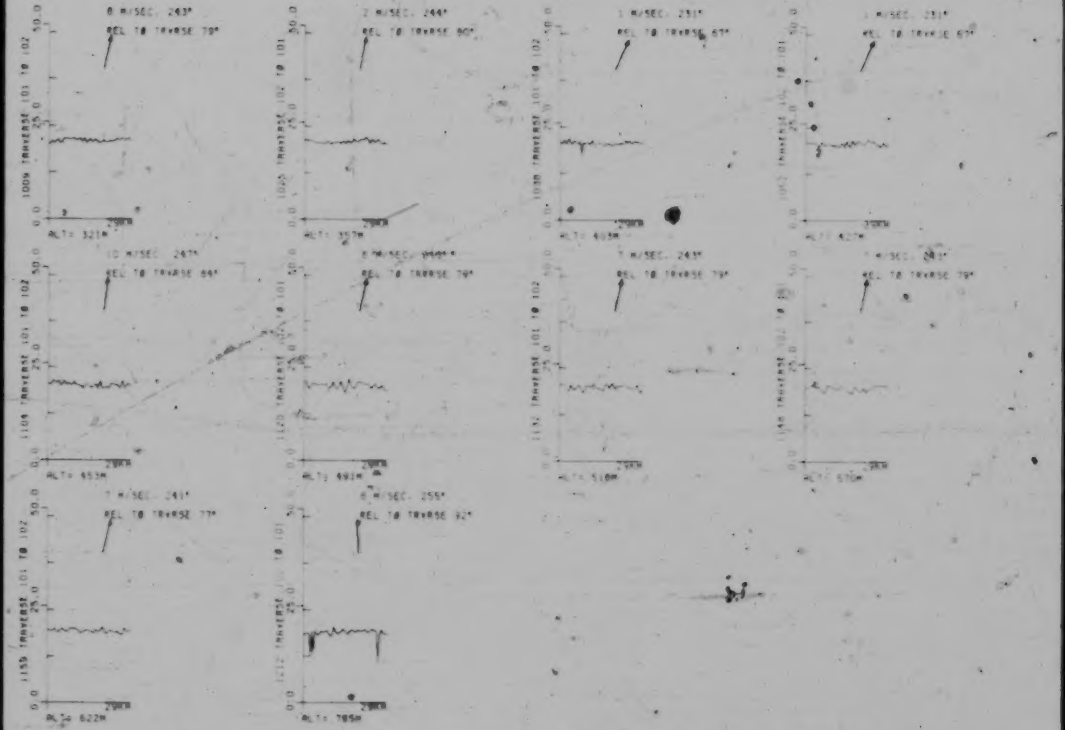
REL TO TRANSE 127°

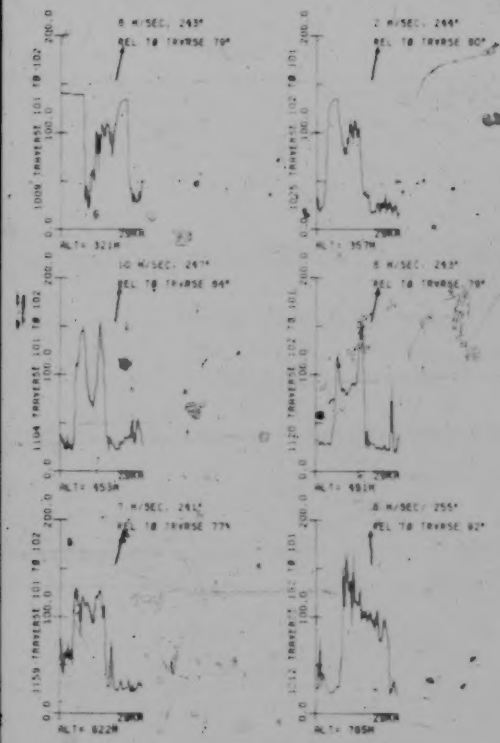
D0672876

MAP 19

M 14

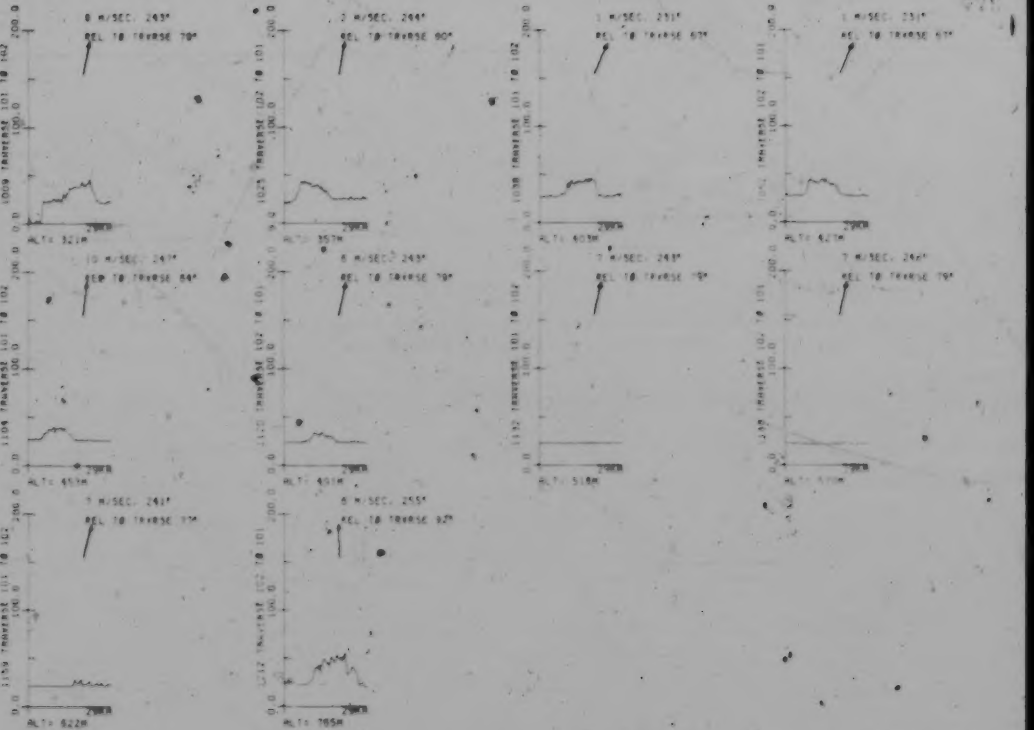

TEMP IN DEGREES C
MAP 19


DEWPOINT IN DEGREES C
MAP 19



CNC IN $10^3 CM^{-3}$

MAP 19


CHARGE IN MILLIVOLTS
MAR 19

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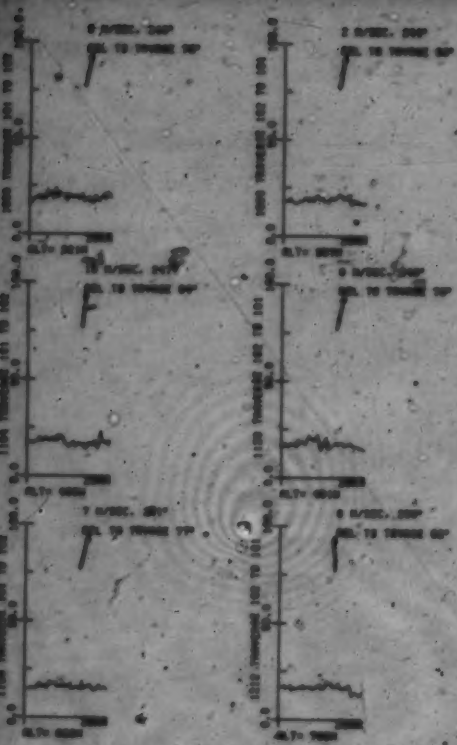
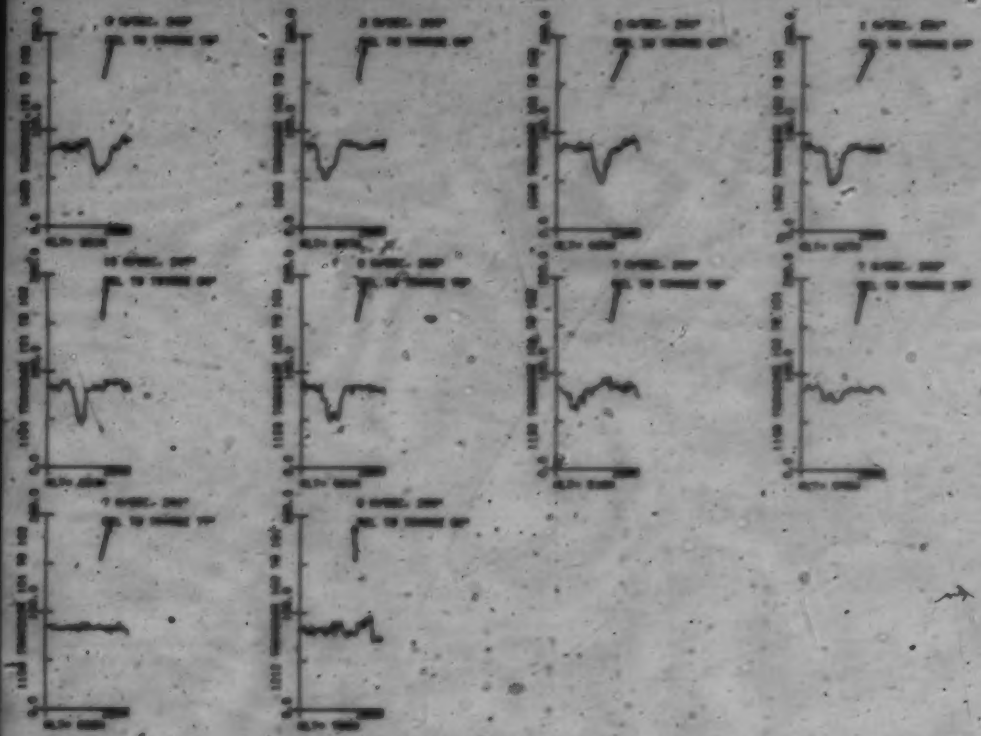
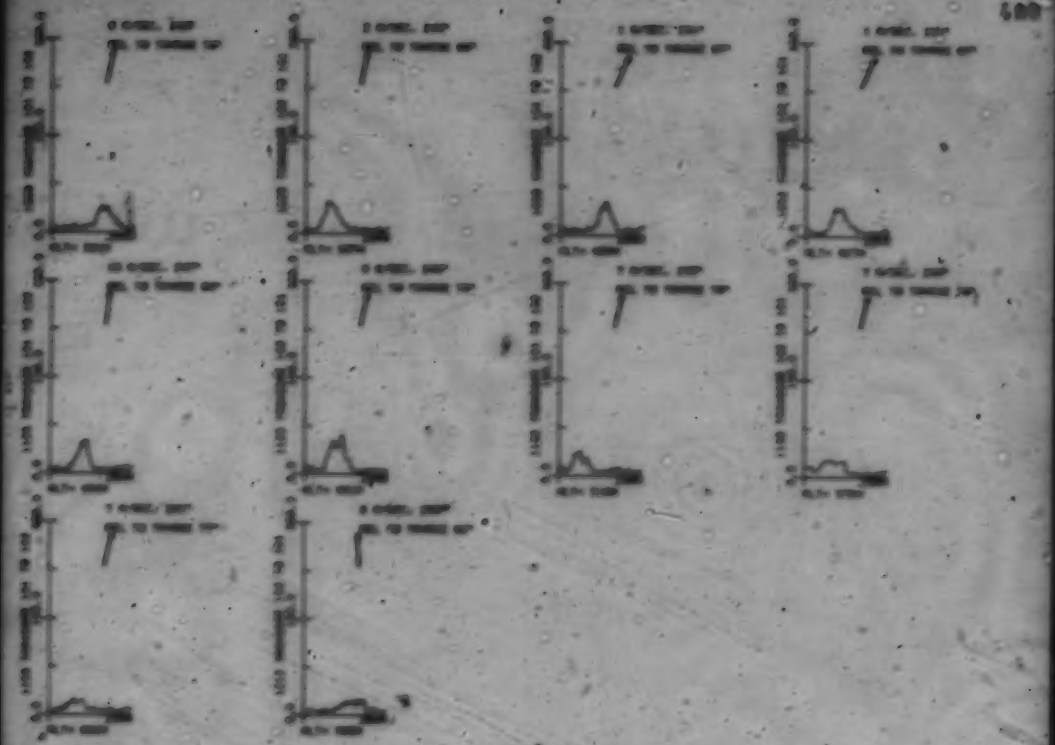


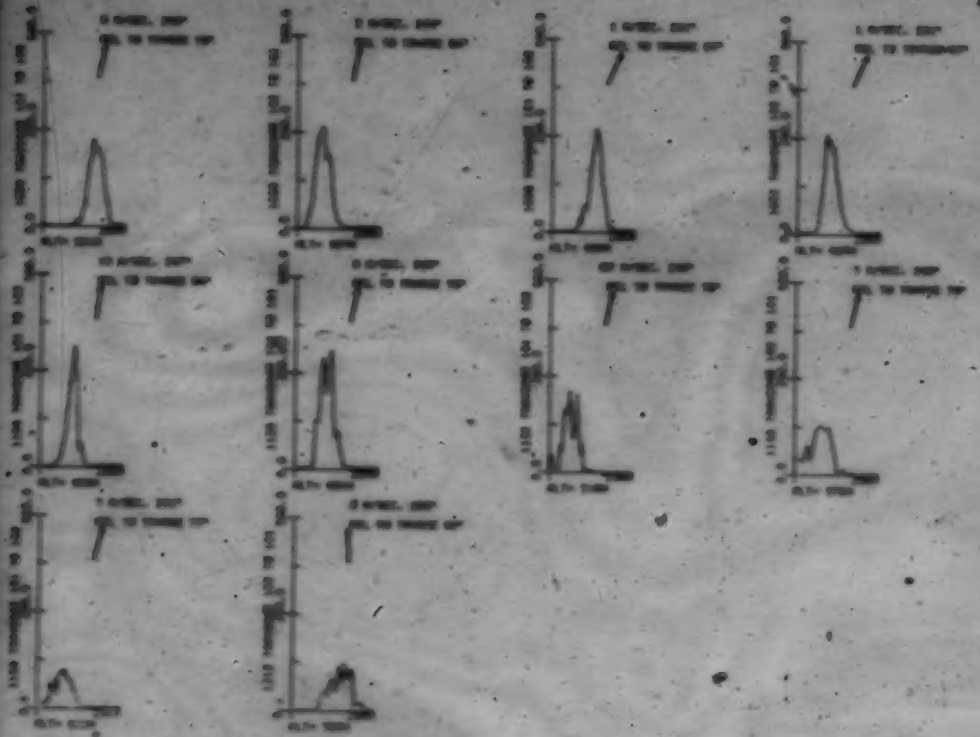
BSCAT IN 10^{-6} M^{-1}

MAP 19





MAP 19



SEE IN P.P.B.

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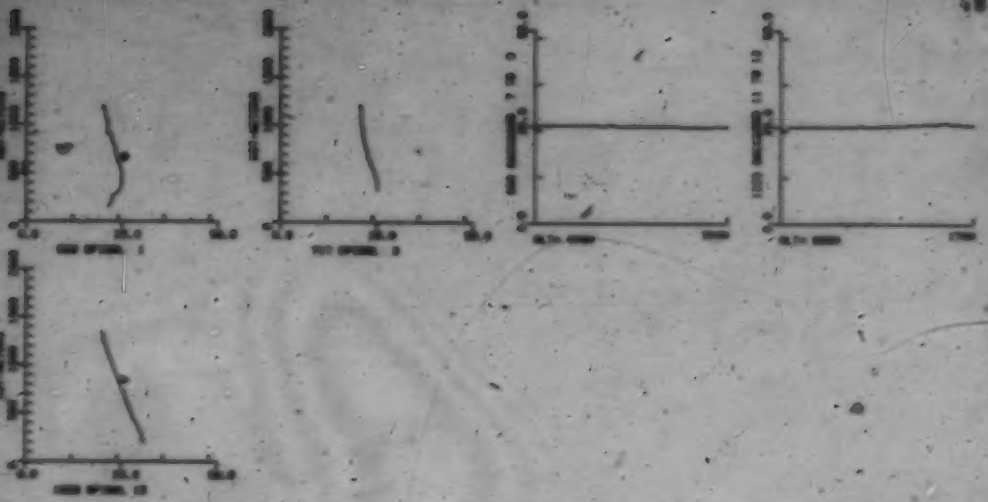
MAP 16

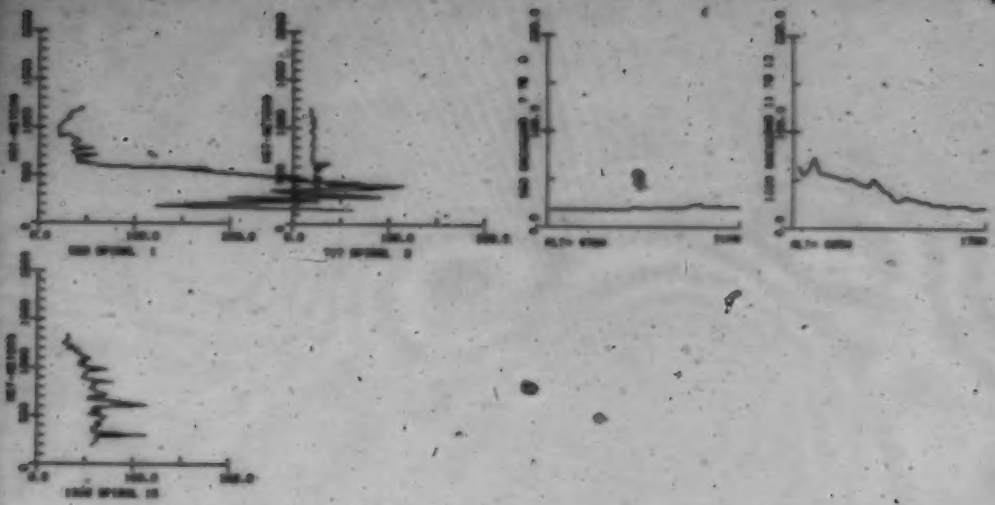


TEMP IN DEGREES C

MAP 16

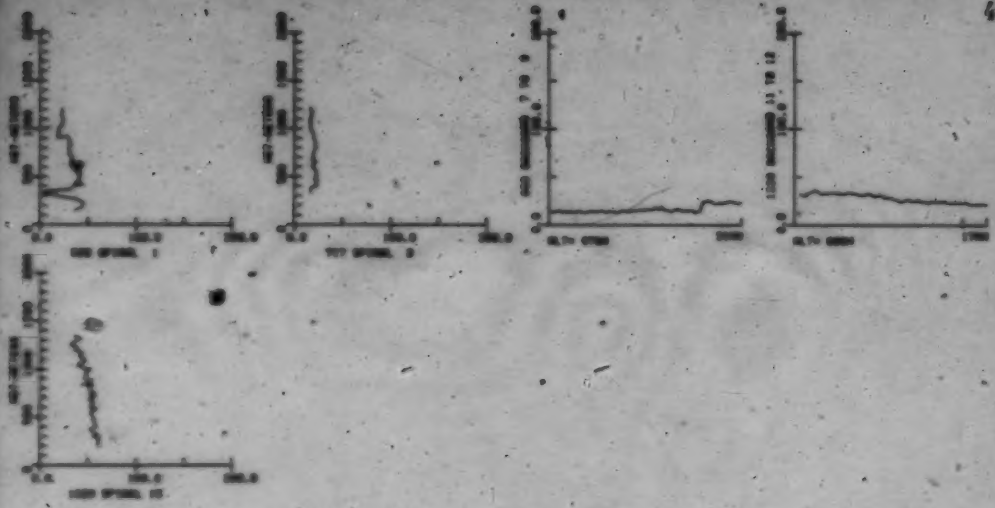
DEWPOINT IN DEGREES C

MAP 16



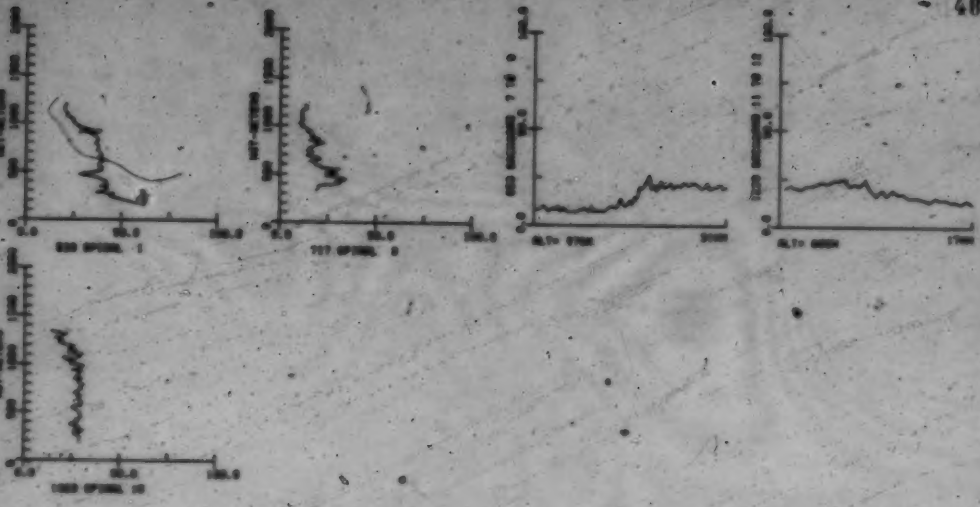
CMC IN $10^{20}cm^{-3}$

MSP 16



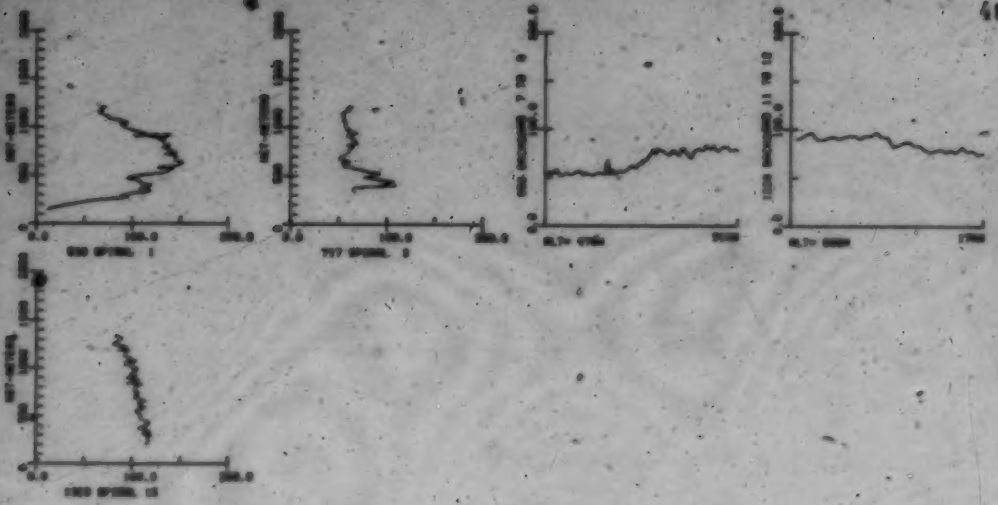
CHANGE IN MILLIVOLTS.

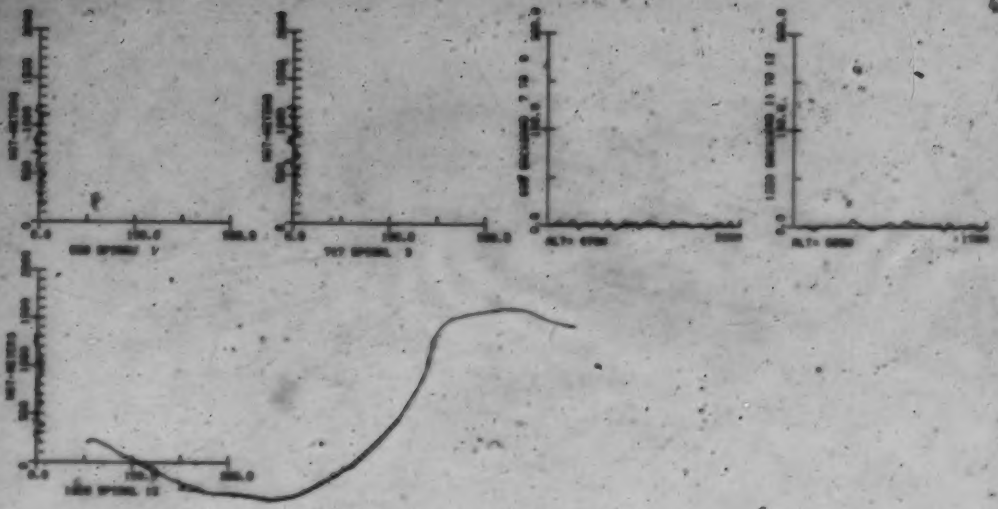
MAP 16



SECAT IN 10^{-6}s^{-1}

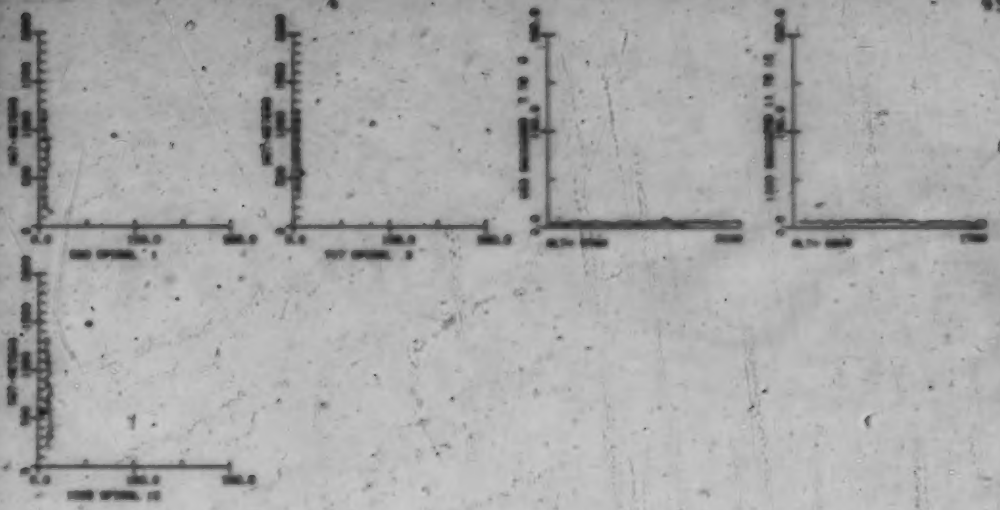
MAP 16

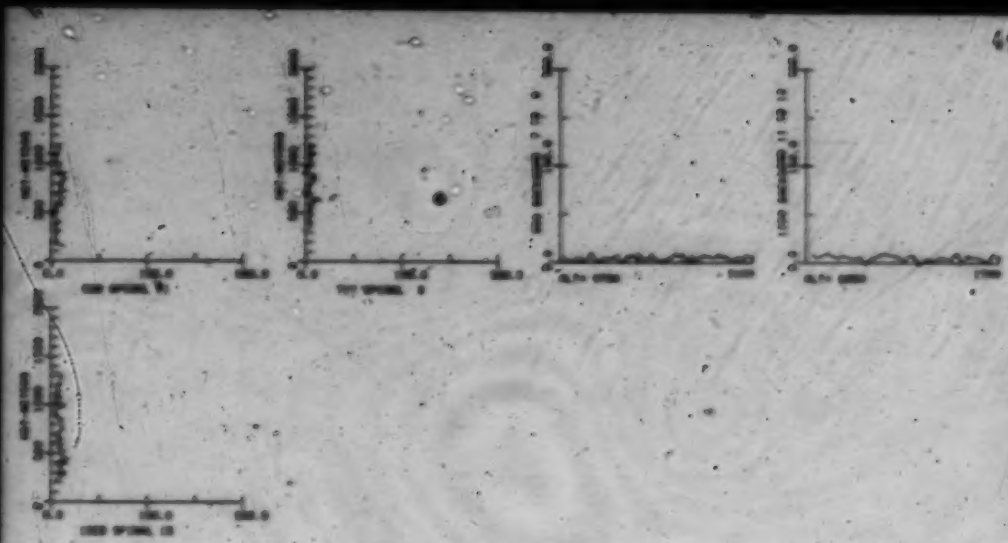


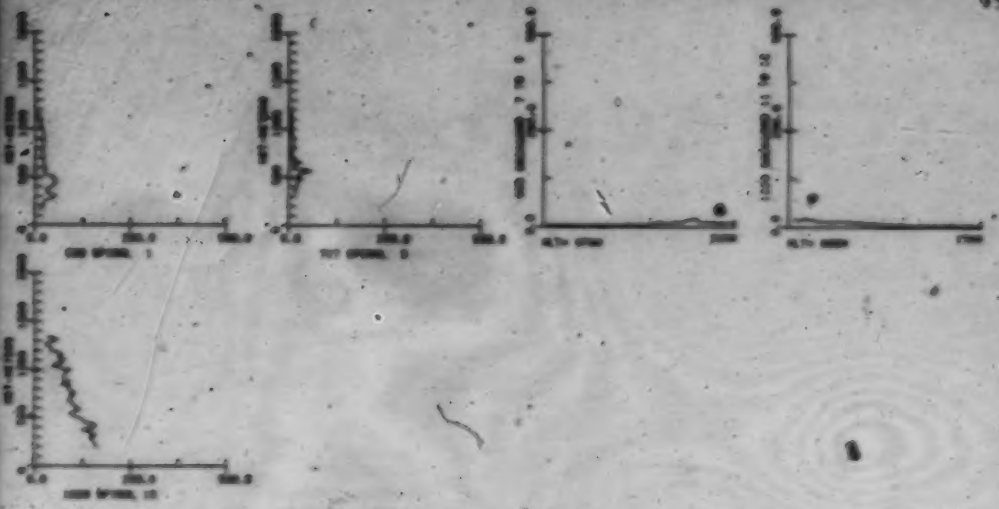


NE IN P.P.S.

MAP 16







SHE Co P.P.O.

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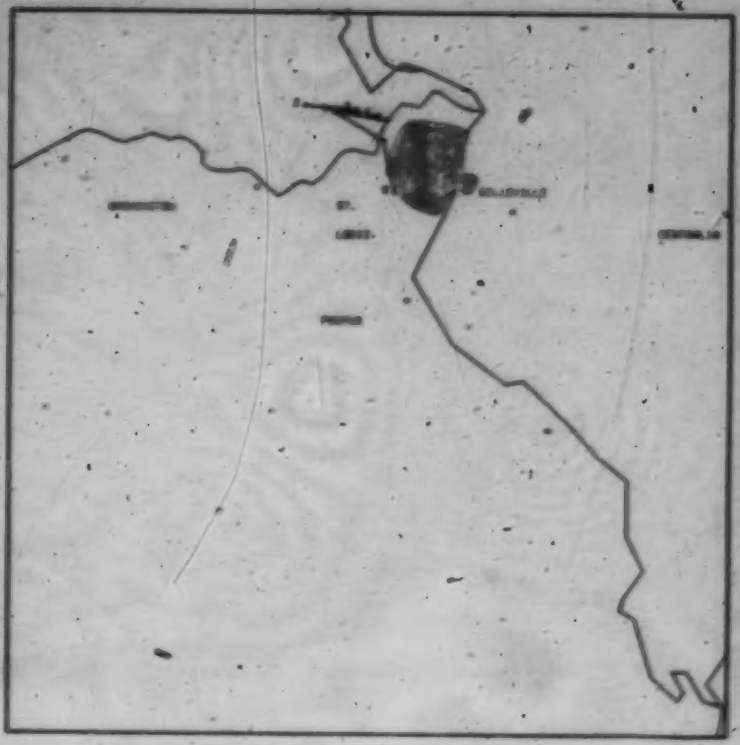
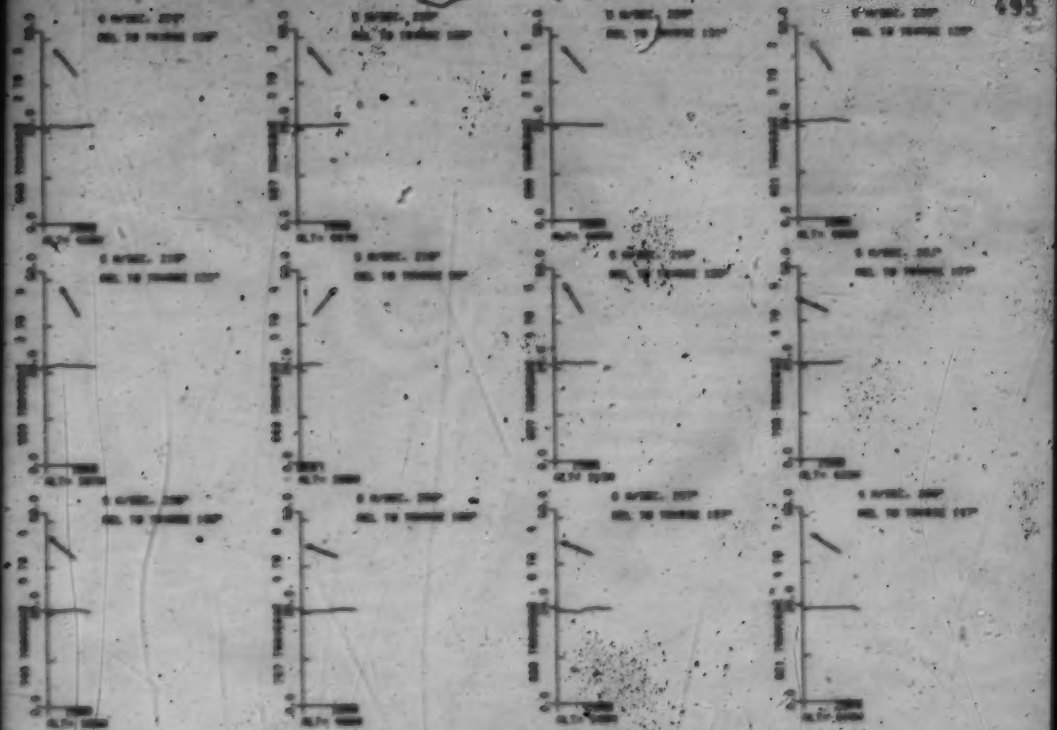
MAP 20



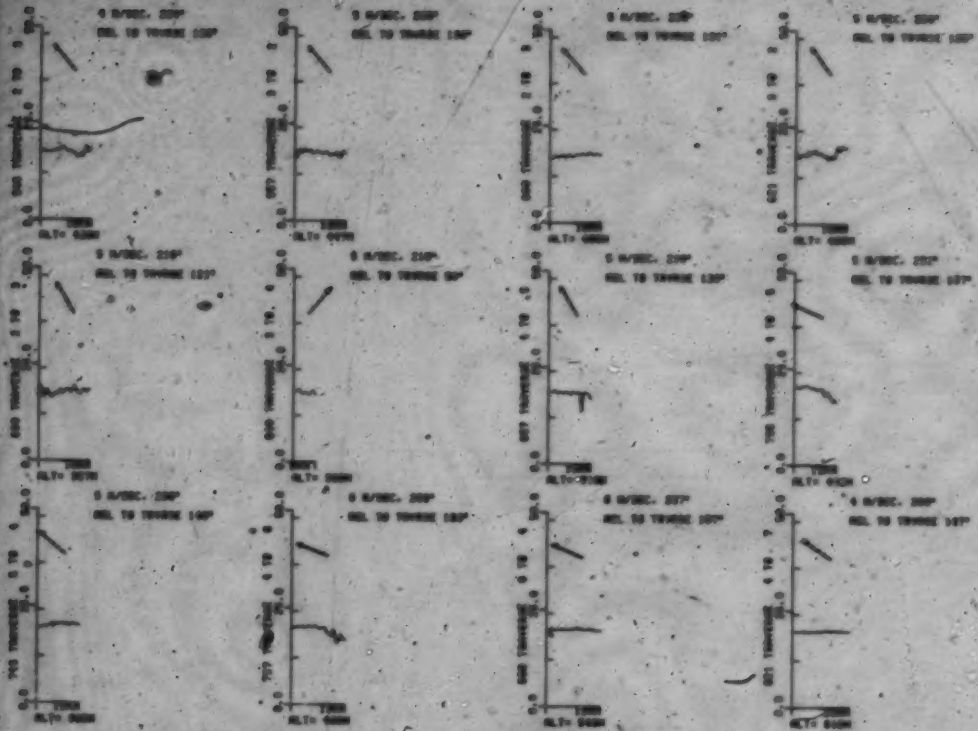


TEMP IN DEGREES C

MAP 20

TEMP IN DEGREES C

MAP 20

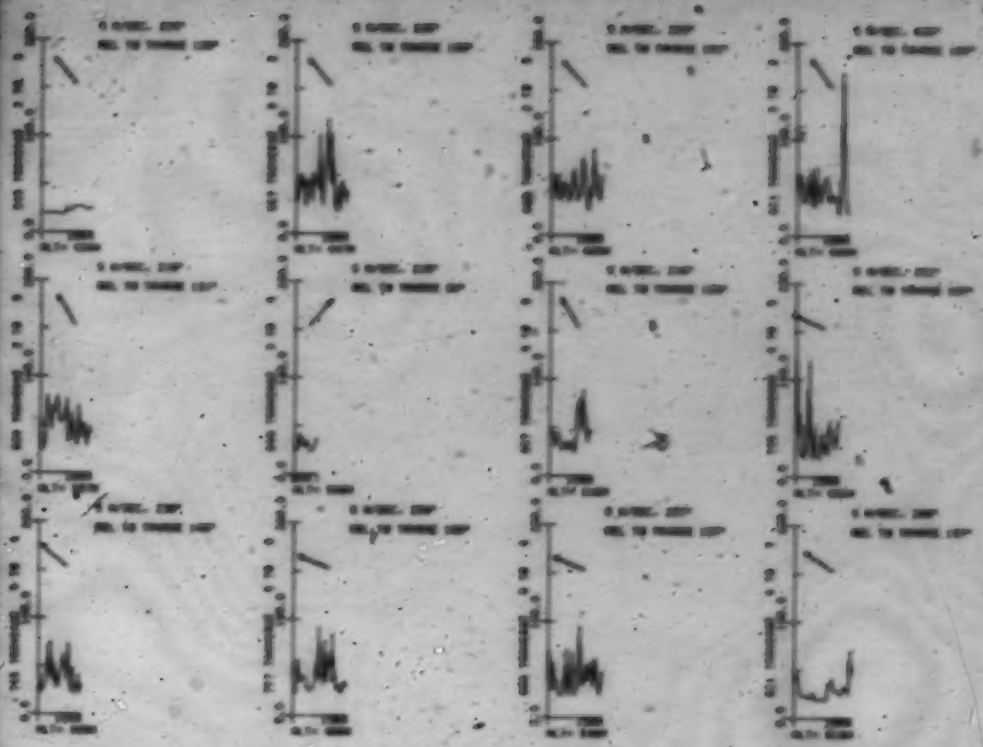


DEWPOINT IN DEGREES C

MAP 20

DEWPOINT IN DEGREES C

MAP 20

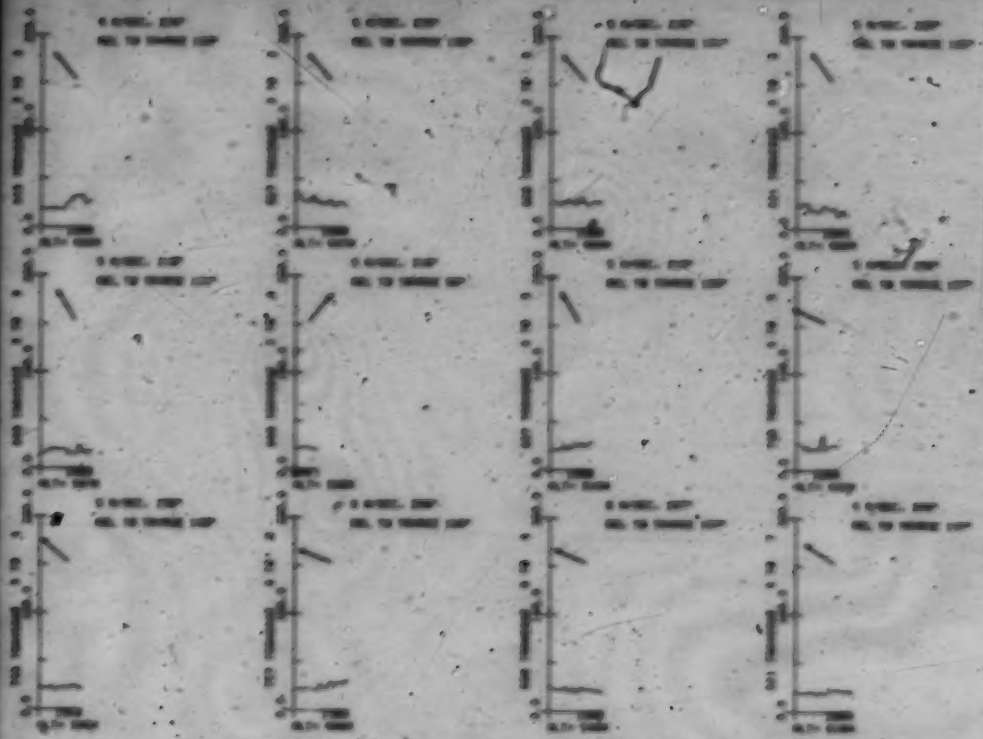


CRC in 10^{3}cm^{-1}

MAP 20

CMC IN 10^{5}M

MOP 20



CHANGE IN RELATIVITY

MAP 20

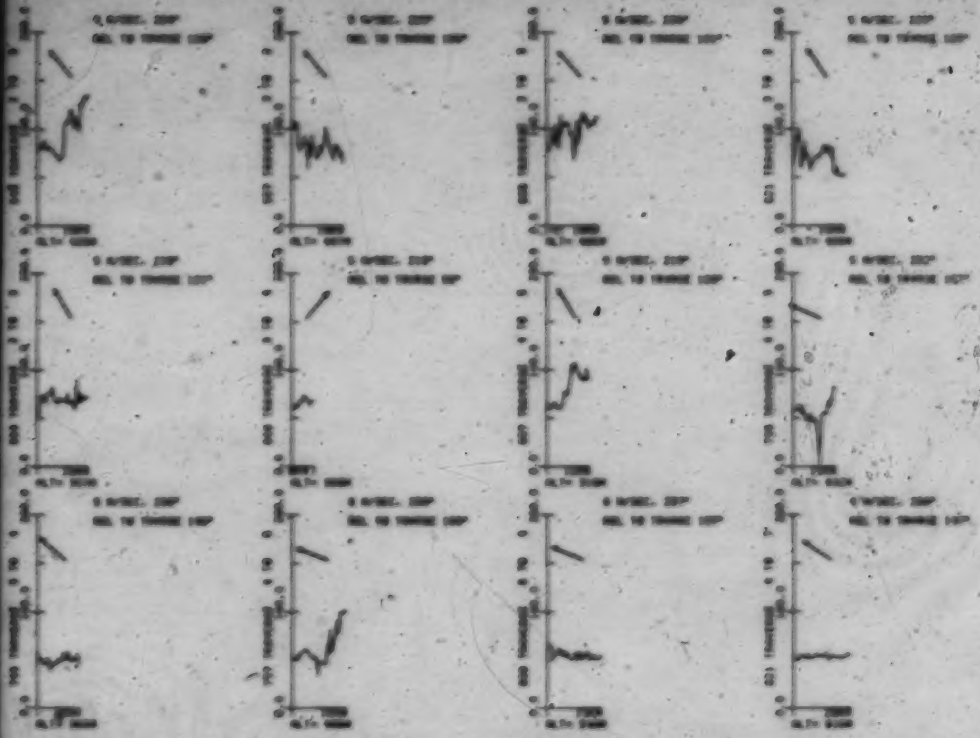
CHANGE IN MILLIVOLTS

MAP 20

MAP 20

BSCAT [m 10^{-6} sr^{-1}]

MAP 20

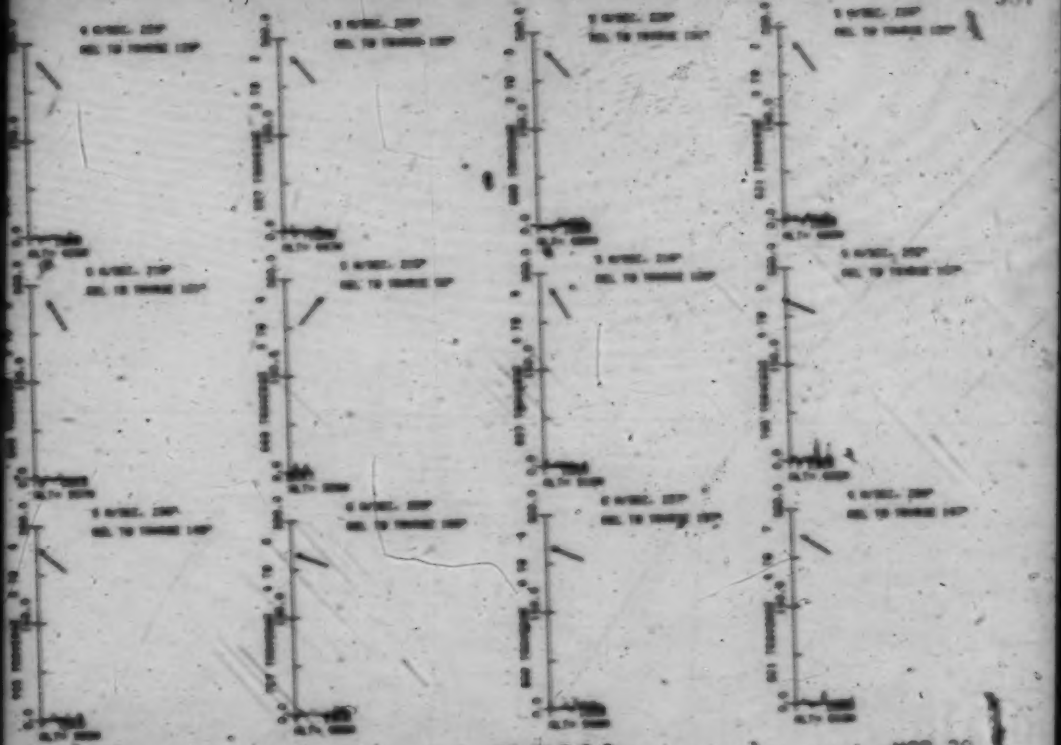


83 in P.P.D.

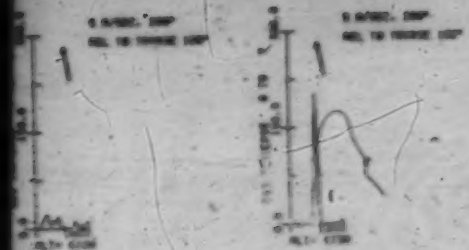
MAP 20

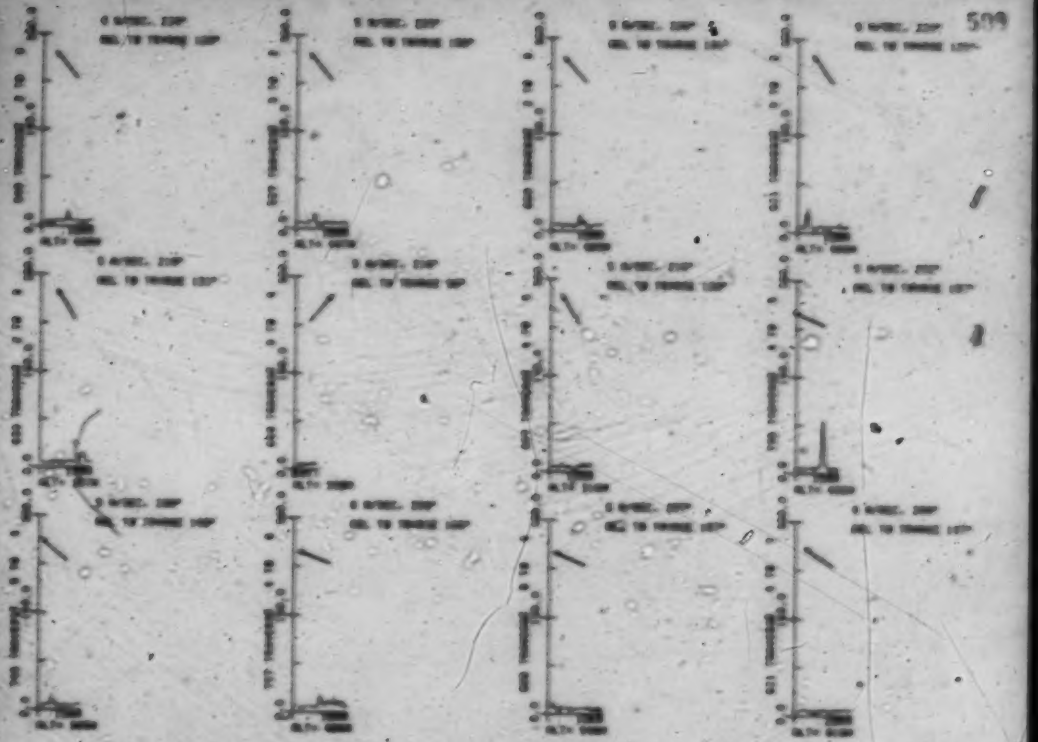
σ_3^1 IN P.P.S.

FIG. 20



MAP 20

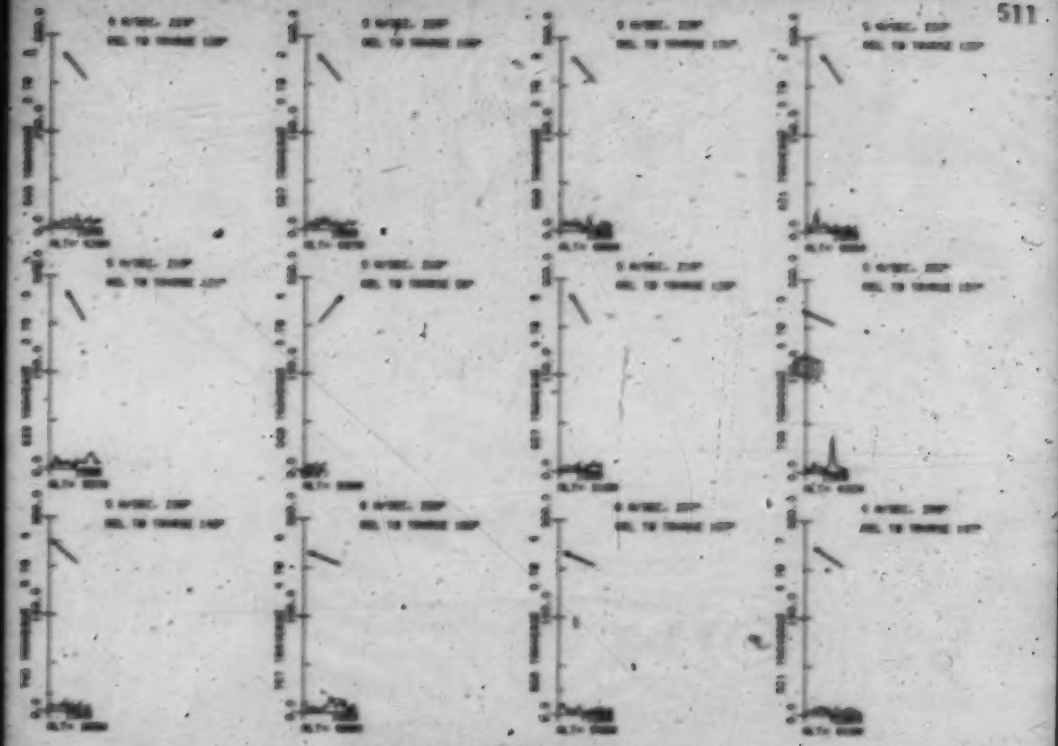




INDEX IN P.P.B.

MAP 20

3



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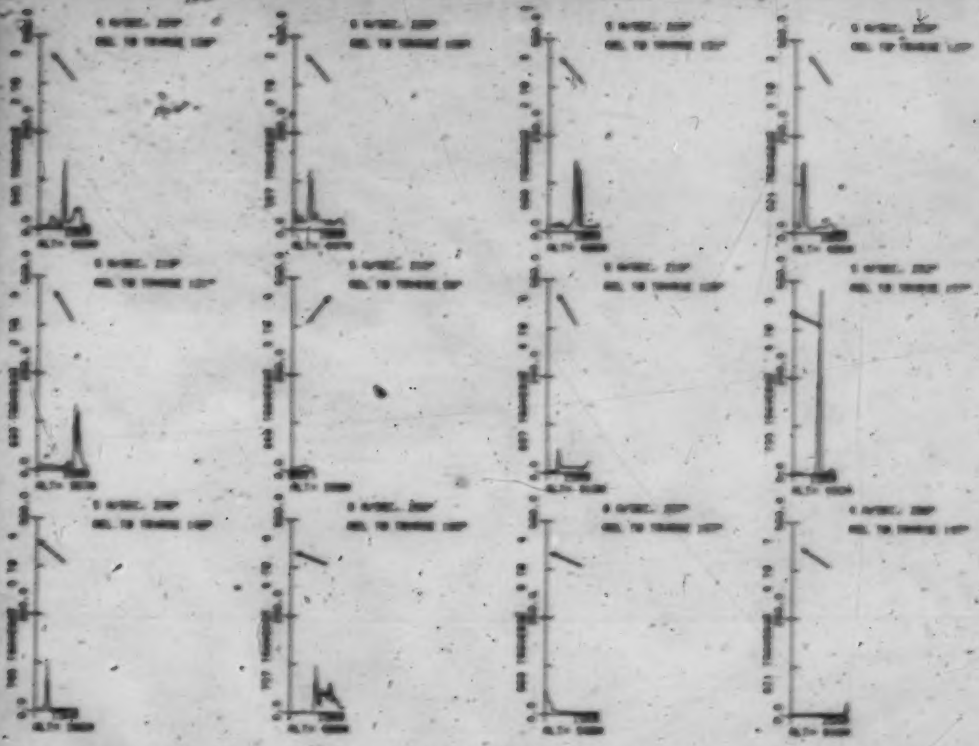
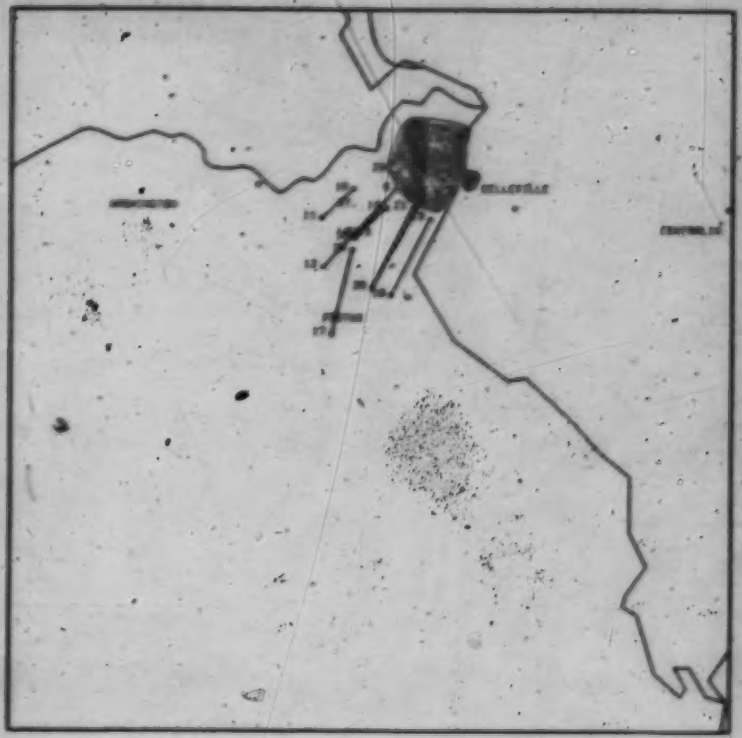


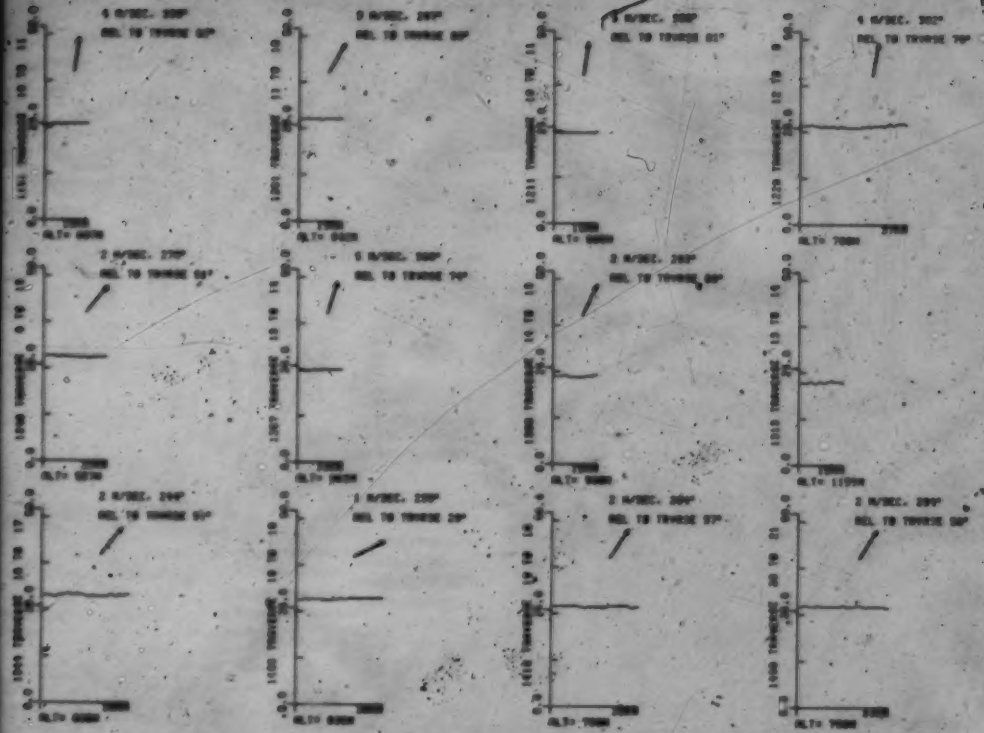
582 in P.P.B.

MAP 20

63873076

MAP 21



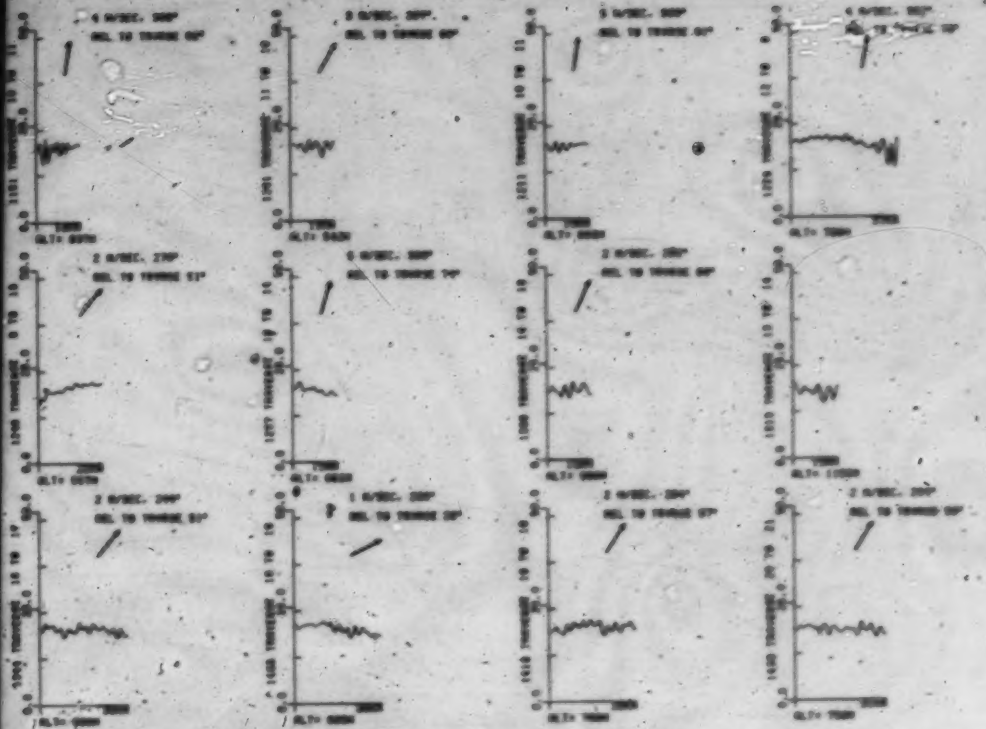


TEMP IN DEGREES C

MAP 21

TEMP IN DEGREES C

MAP 21

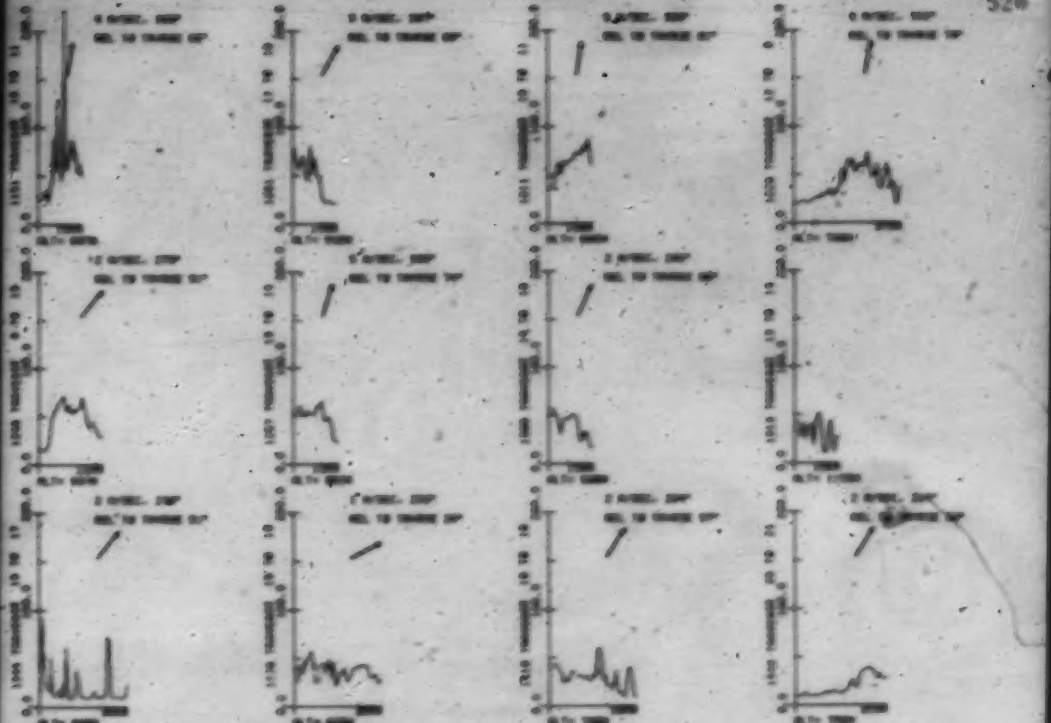


DEWPOINT IN DEGREES C

MAP 21

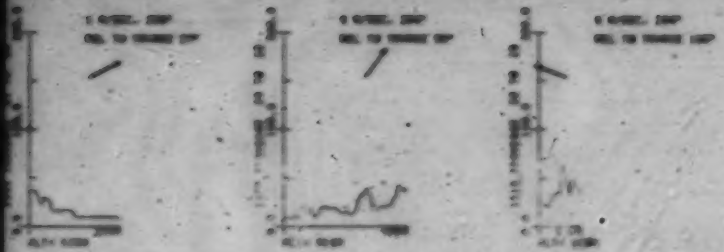
DEWPOINT IN DEGREES C

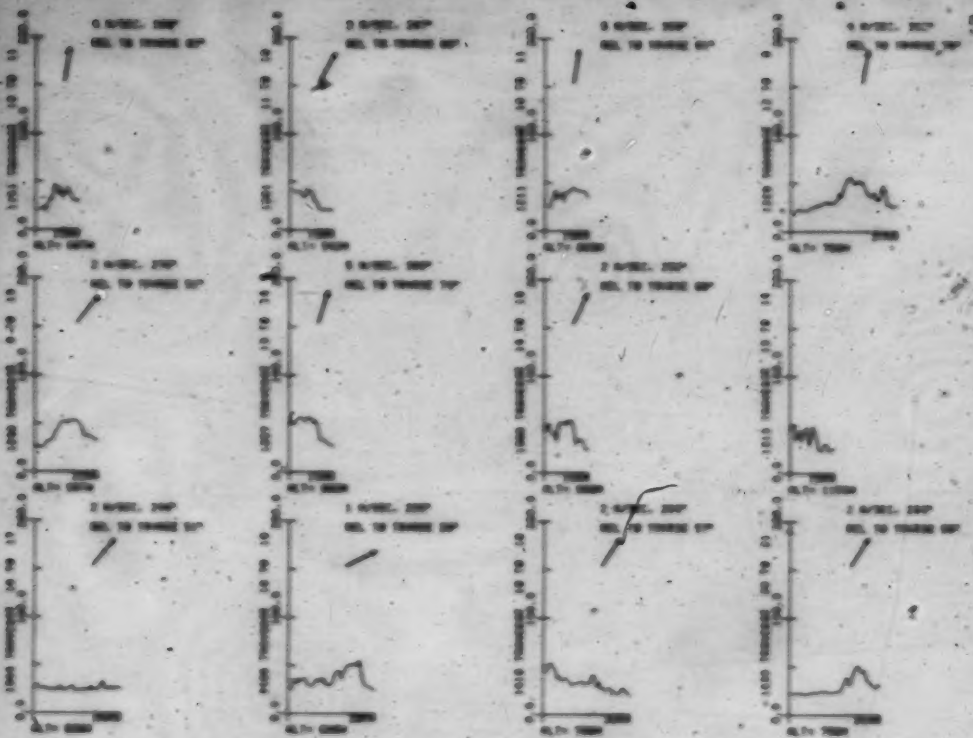
MAP 21



CMC in 10^{-6}

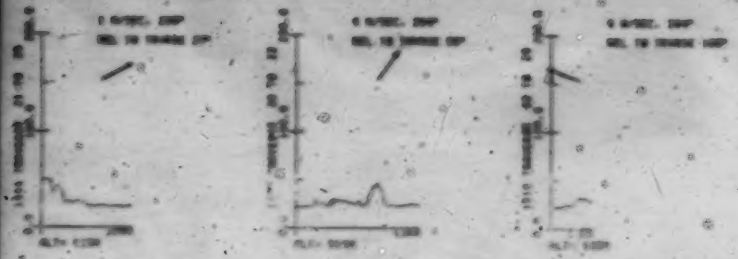
MAP 21





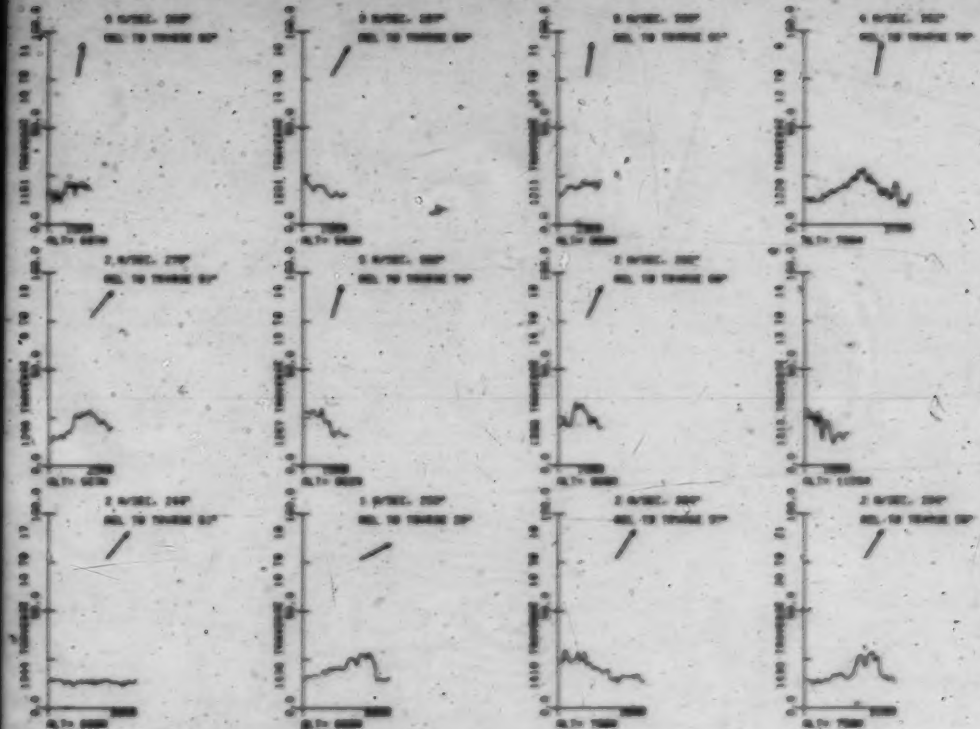
CHARGE IN MILLIVOLTS

MAP 2

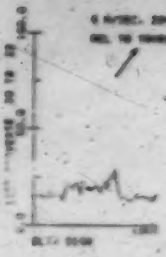


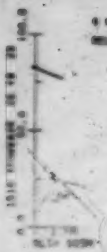
CHARGE IN MILLIVOLTS

MAP 21



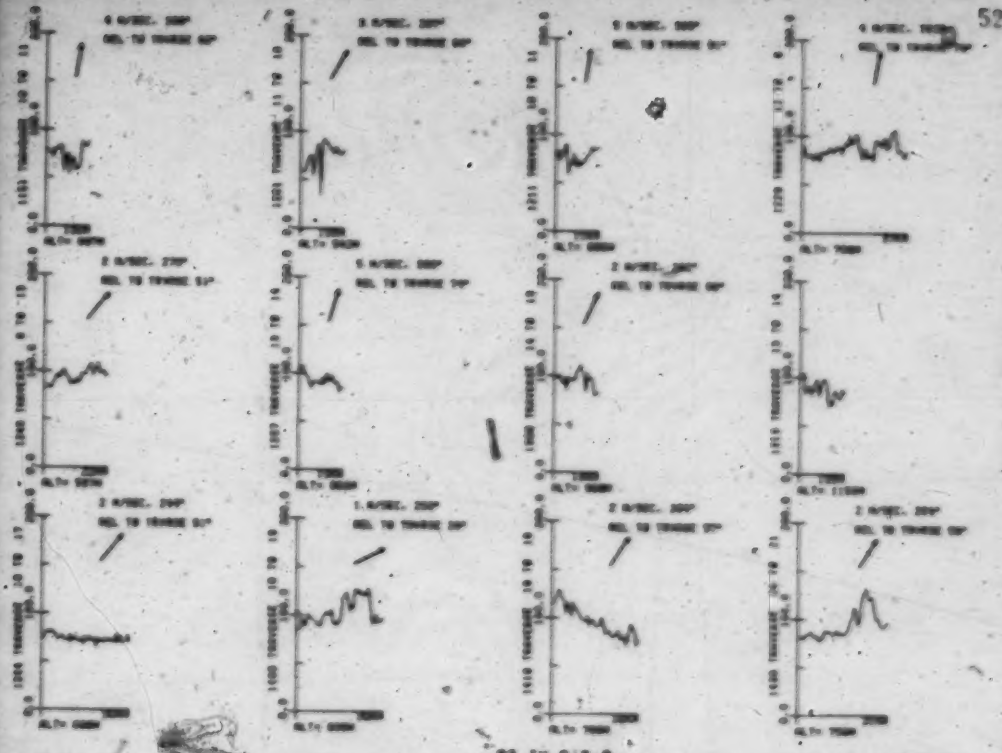
BSCAT IN 10^{-5}M^{-1}





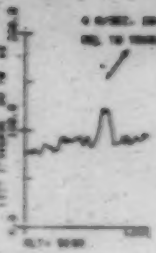
BSCAT IN $10^{-6}m^{-1}$

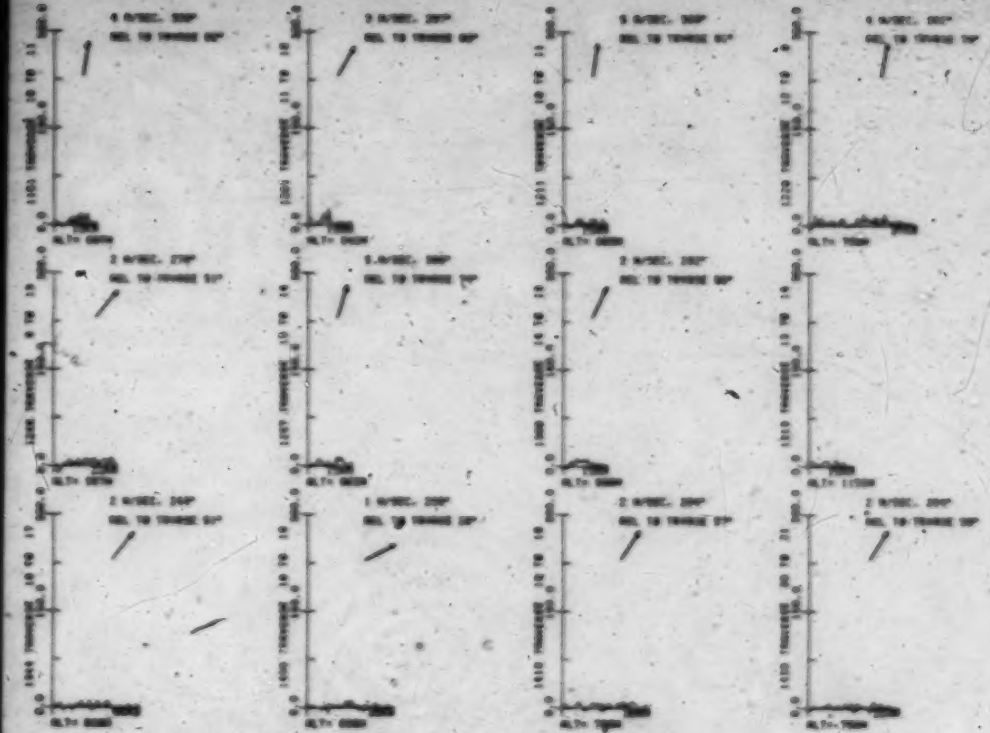
MAP 21



83 IN P.P.B.

MAR 21



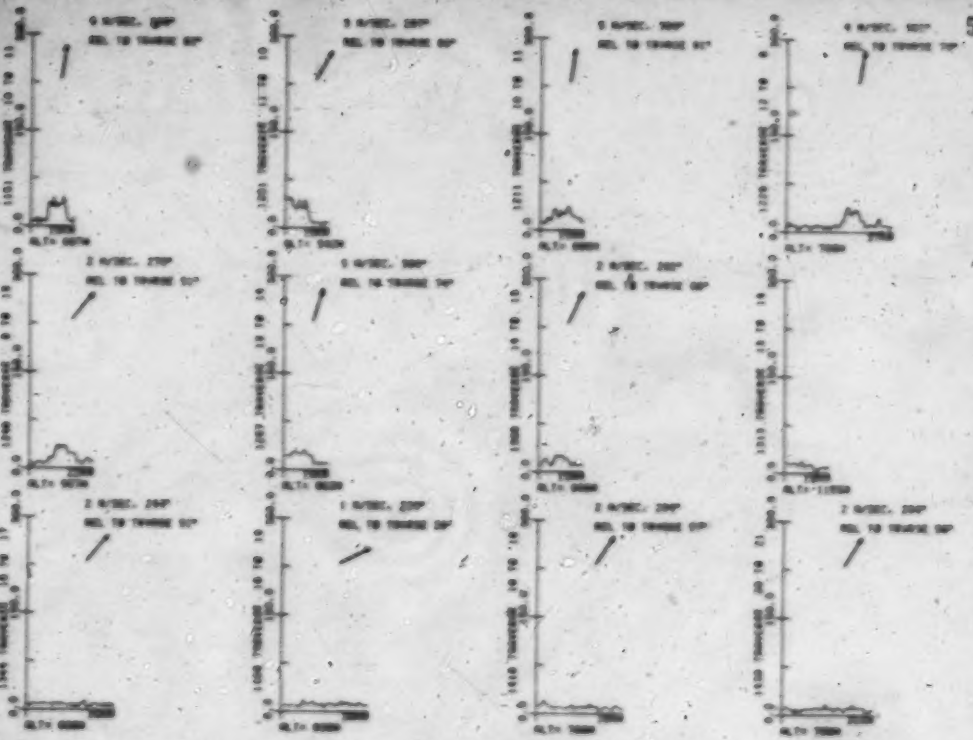


NB IN P.P.B.

MAP 21

NB IN P.P.E.

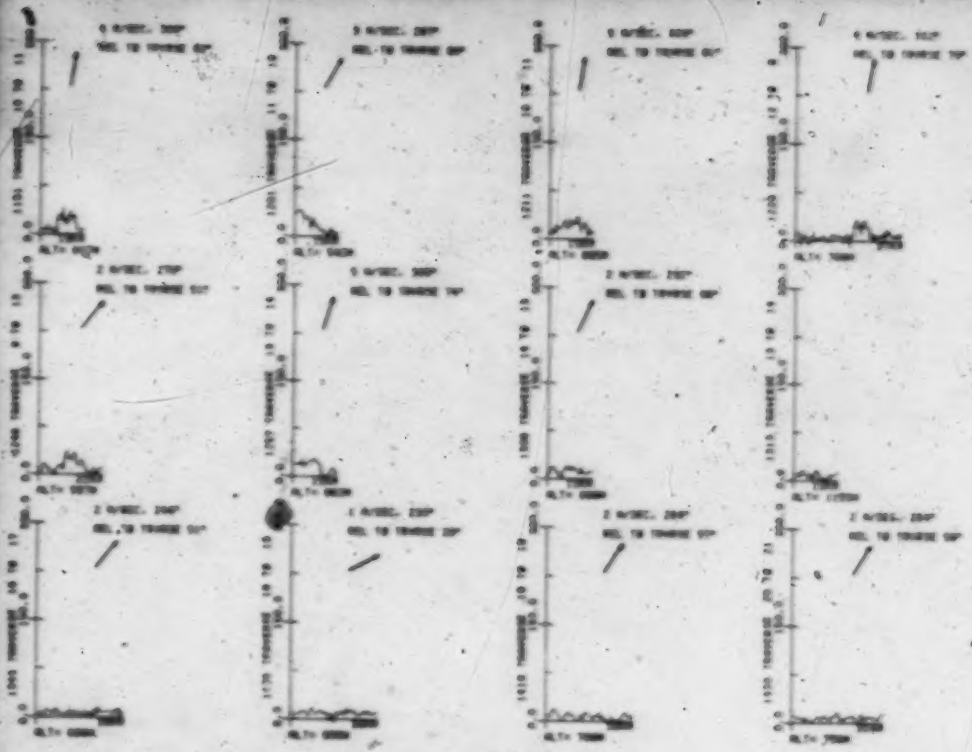
MAP 21



MAP 21

NOT IN P.P.B.

MAP 21

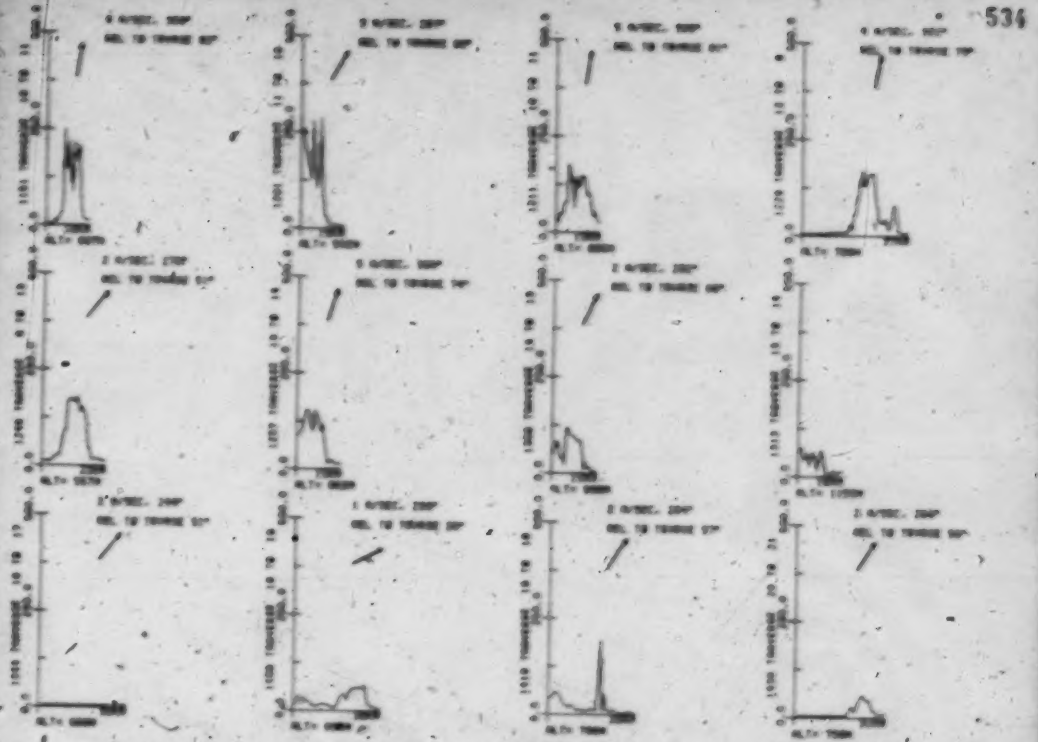


NB2 IN P.P.B.

MAP 21

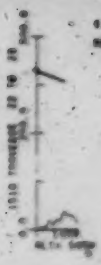
NO2 IN P.P.B.

MAP. 21



582 (N P.P.B.

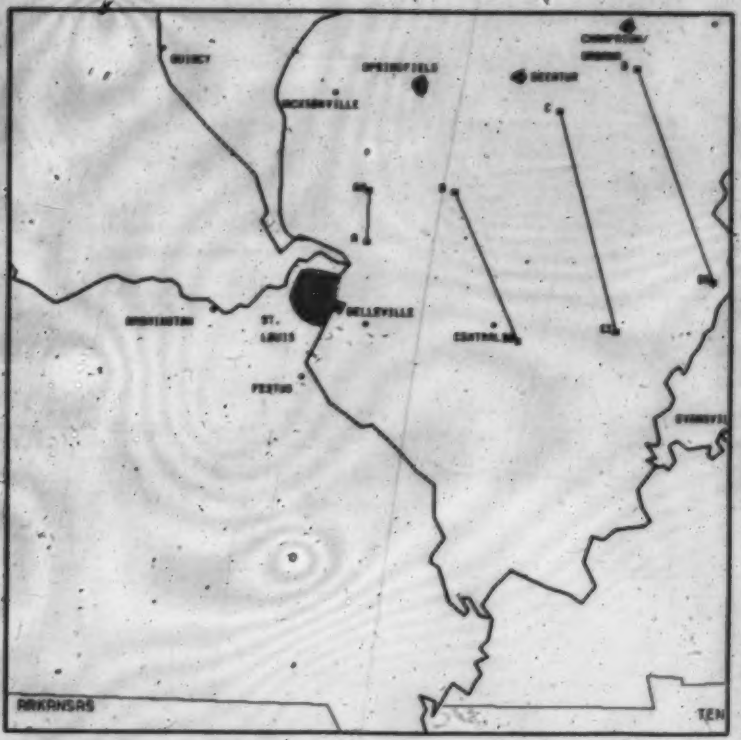
MAP 21

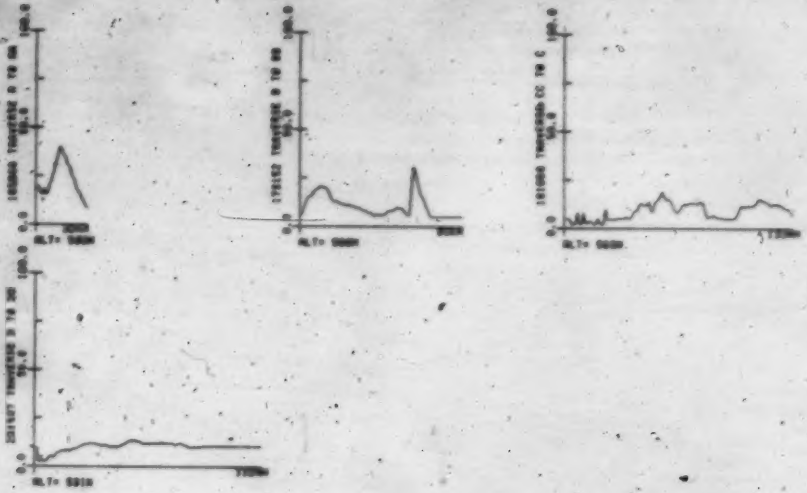


PART 2:
UNIVERSITY OF WASHINGTON DATA

W7600I.VOL 6-27-76

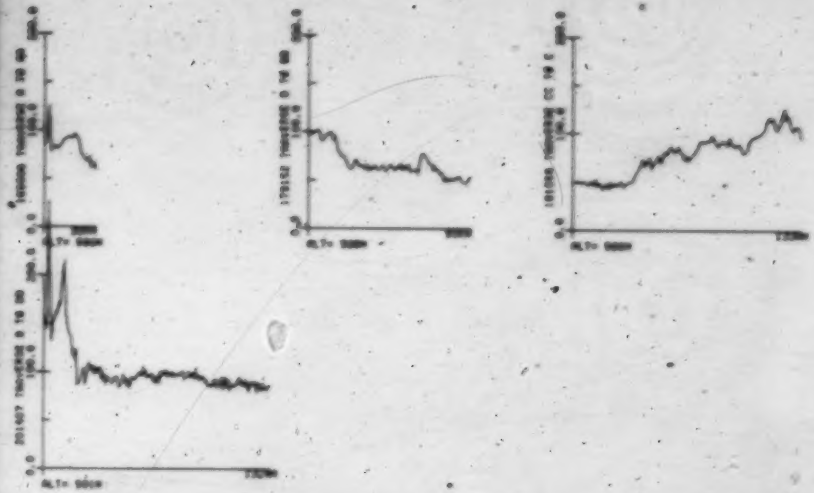
MAP 1





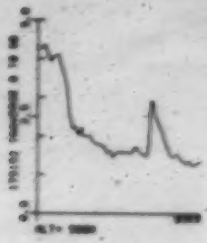
SO2 IN P.P.B.

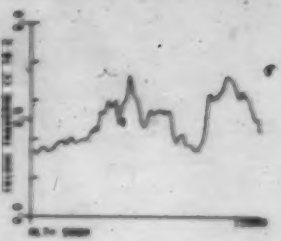
MAP 1

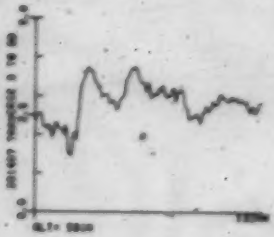


O3 IN P.P.B.

MAP 1





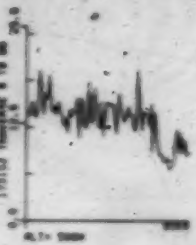


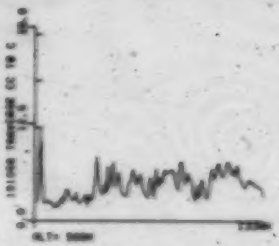
BSCAT IN 10^{-4} m^{-1}

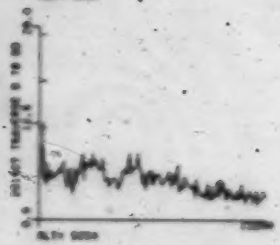
MAP 1

SR1 IN UC/M³

MAP 1



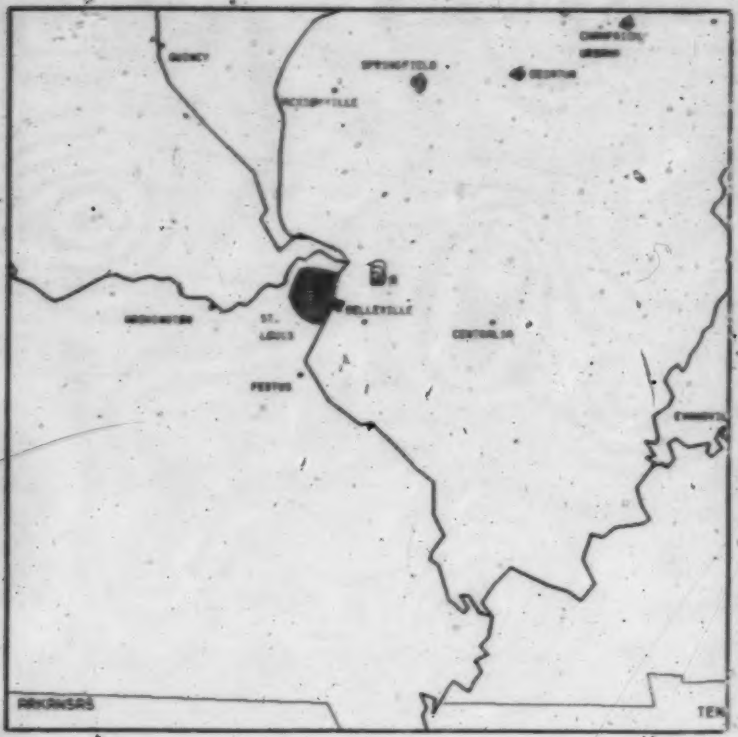


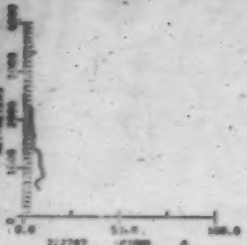


CNC IN $10^{5}CM^{-3}$

MAP 1

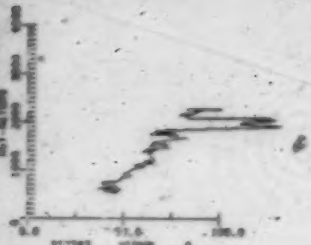
W76001.VOL 6-27-76 MAP 1





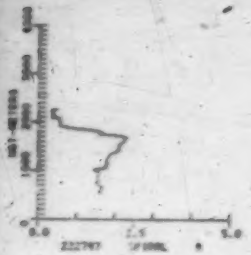
SEE IN P.P.B.

MAP

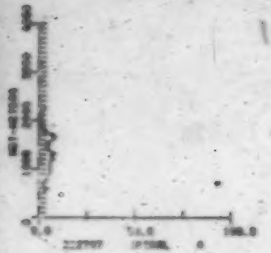


83 IN P.P.B.

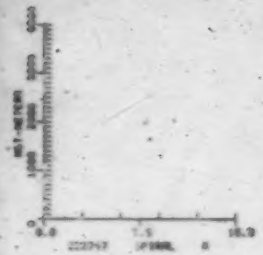
MOP



ESCAT IN 10^{-4} M^{-1}



CNC IN $10^3 CM^{-3}$

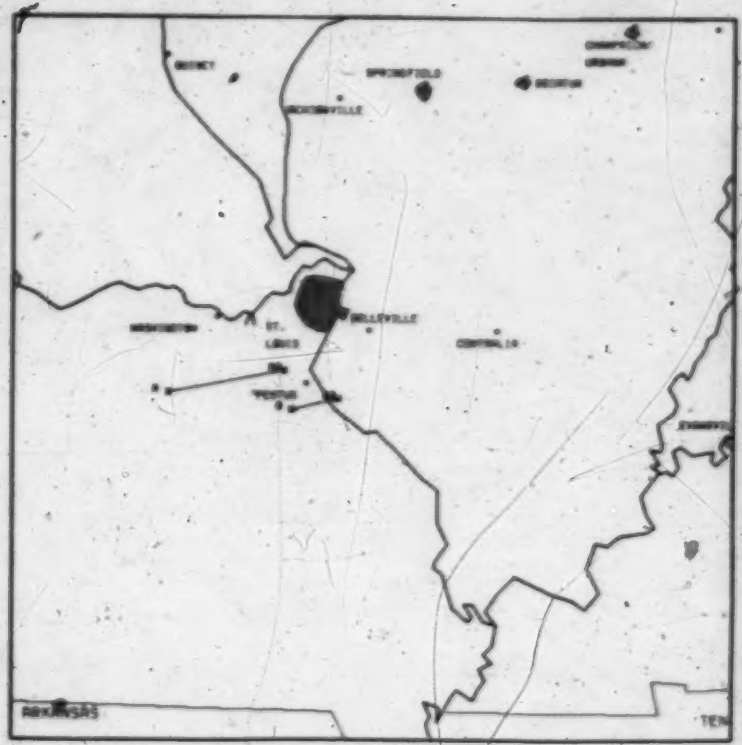


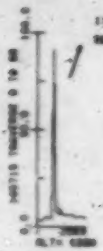
SR4 IN UC/M³

MAP

W76004.VOL 7-05-76

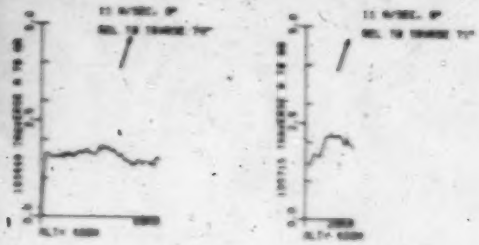
MAP 2





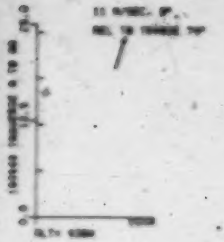
382 IN P.P.B.

MAP 2



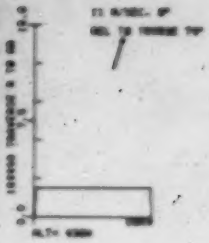
BSCAT IN $10^{-4}m^{-1}$

MAP 2



CNC IN $10^3 CM^{-3}$

MAP 2

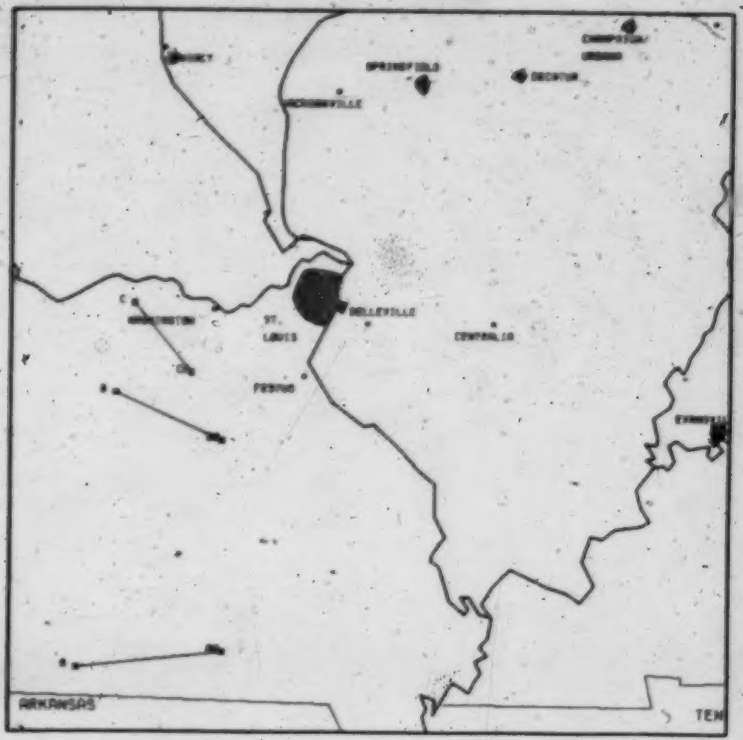


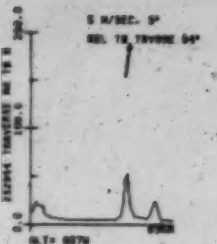
-584 IN UC7H^3-

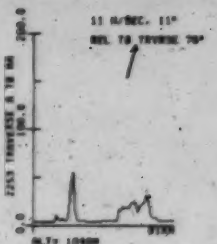
MAP 2

M76005.VOL 7-5-76

MAP 3

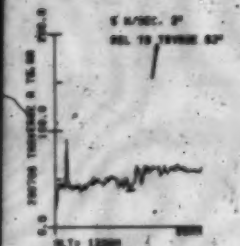


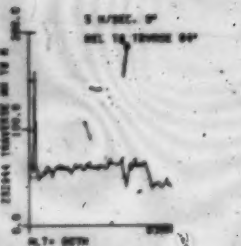


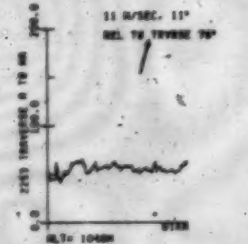


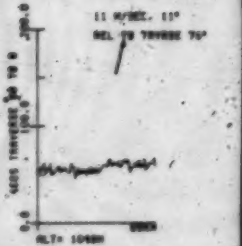
SO2 IN P.P.B.

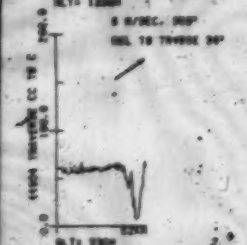
MAP 3





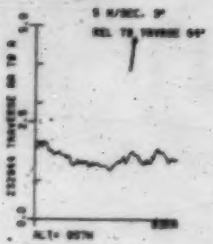


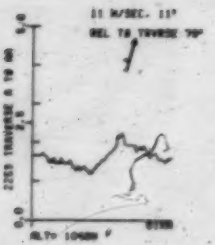


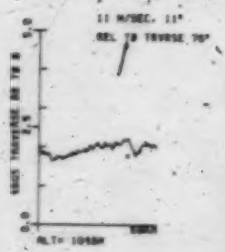


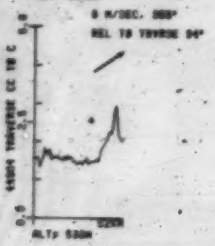
93 IN P.P.B.

MAP 3



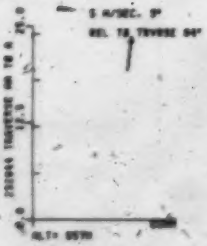


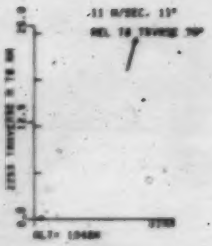


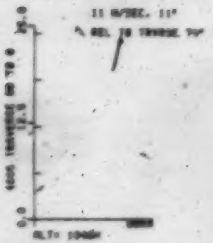


BSCAT IN $10^{-6}M^{-1}$

MAP 3

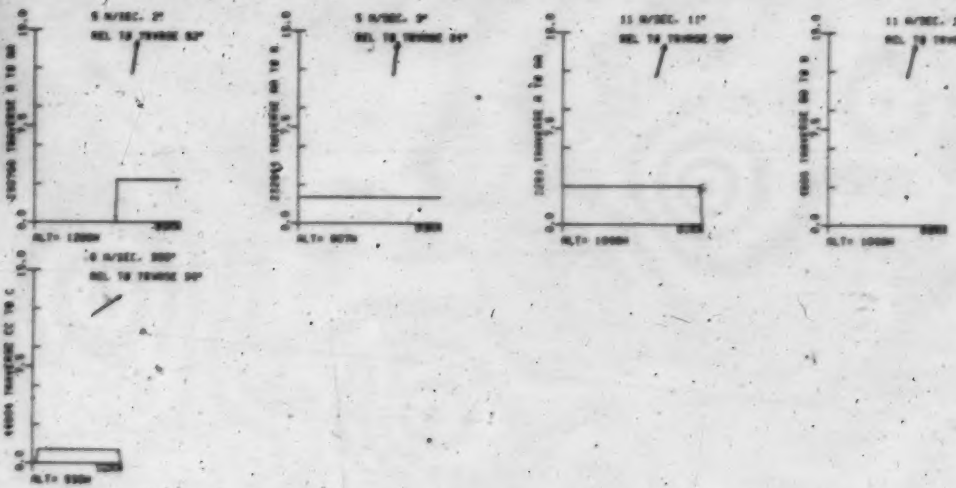






CNC IN $10^3 CM^{-3}$

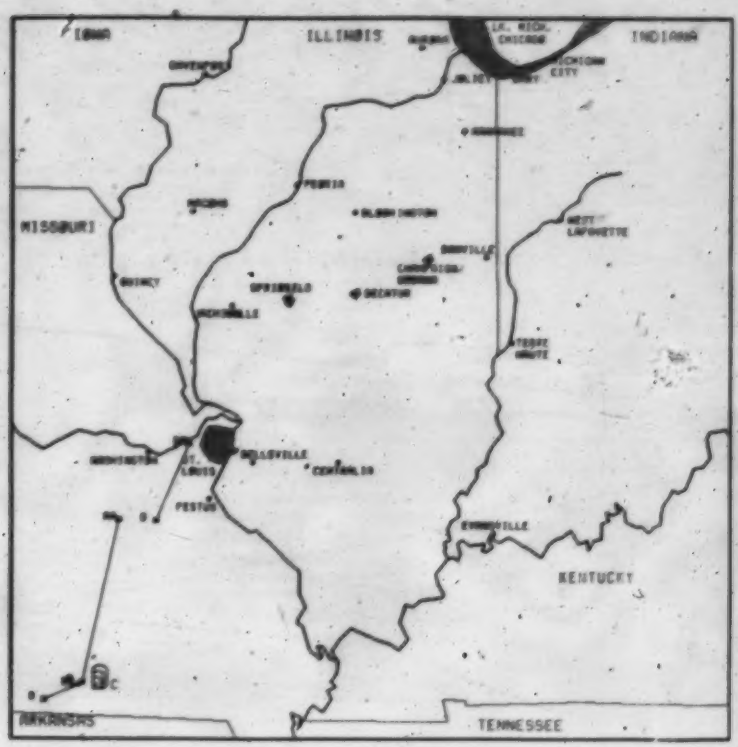
MAP 3

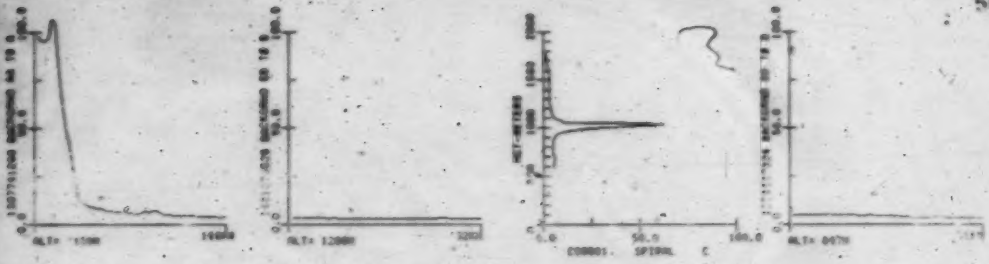


SO_4 IN UC/M^3

MAP 3

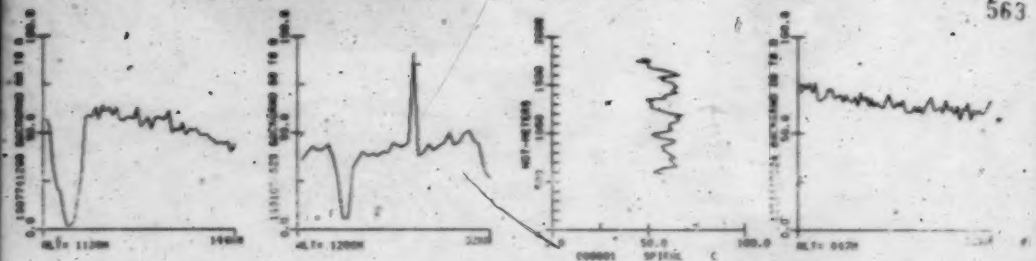
W76005.VOL 7-5-76 MAP 2





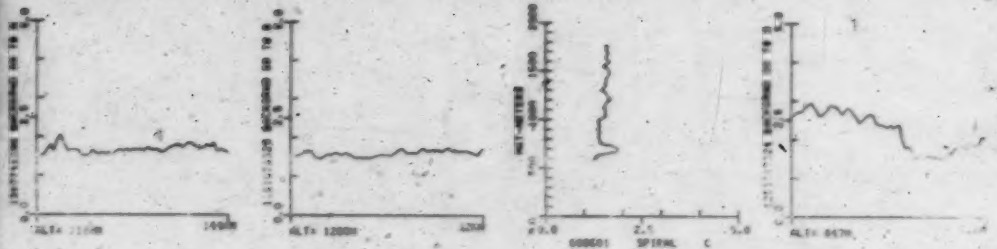
SO2 IN P.P.B.

MAP 2



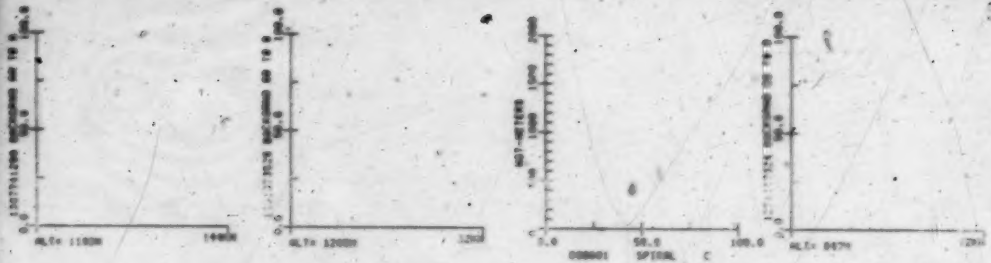
03 IN P.P.B.

MAP 2



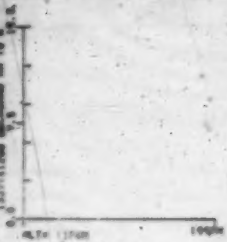
BSCAT IN 10^{-3} M^{-1}

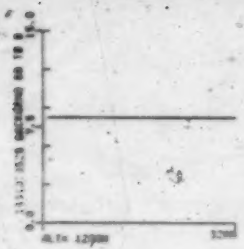
MAP 2

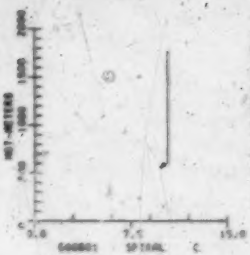


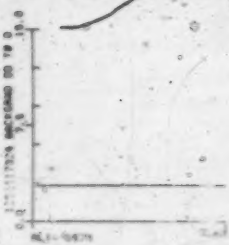
CNC IN $10^3 CM^{-3}$

MAP 2





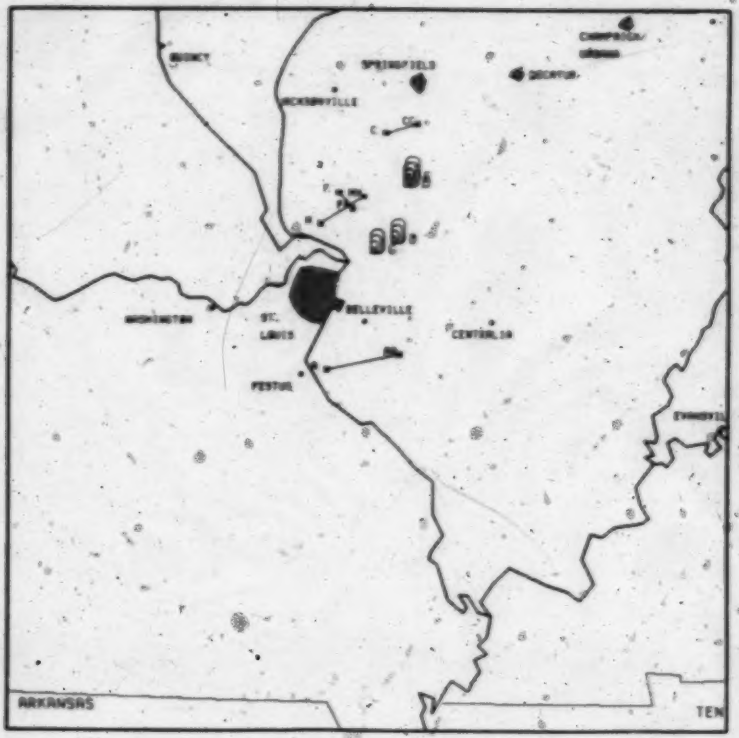


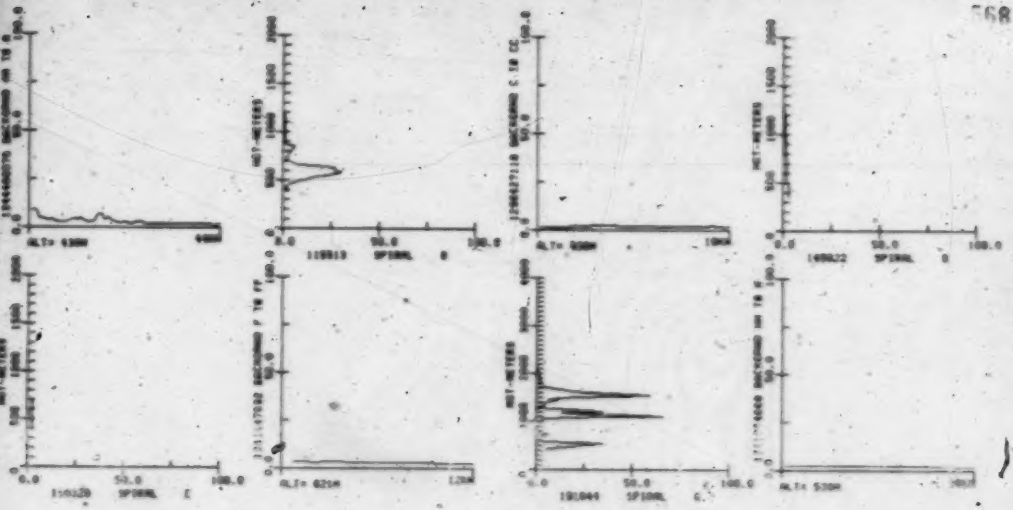


S84 IN UC/M³

MAR

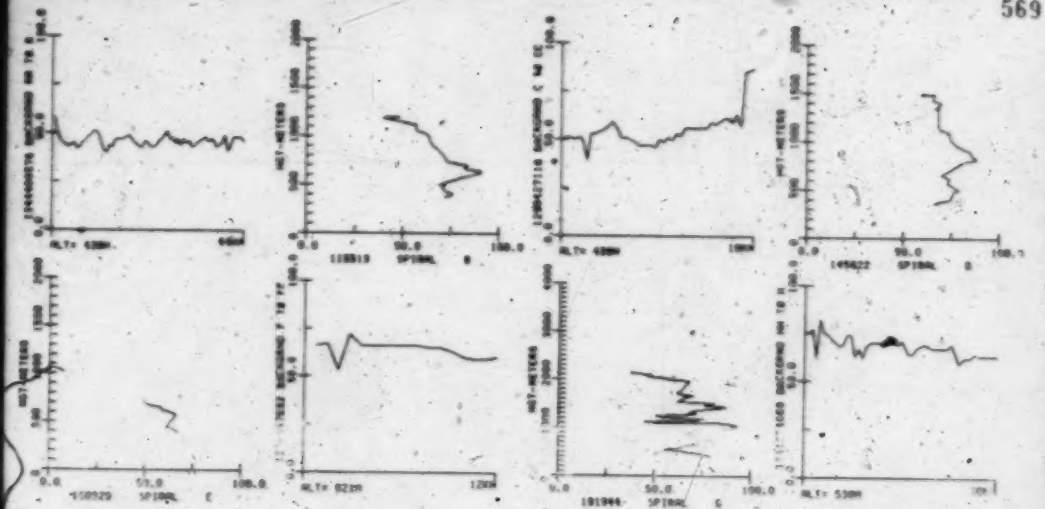
M76008, VOL 7-7-76 MAP 3





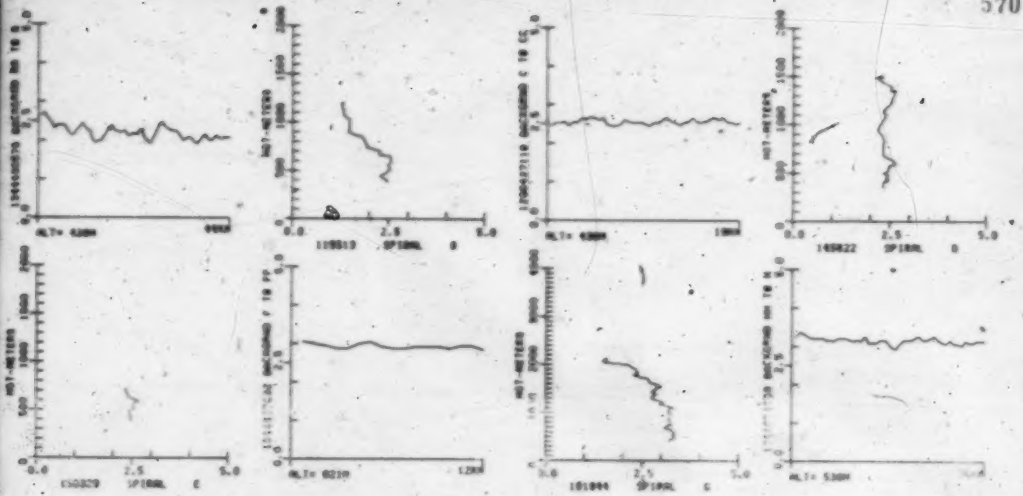
SO2 IN P.P.B.

MAP 3



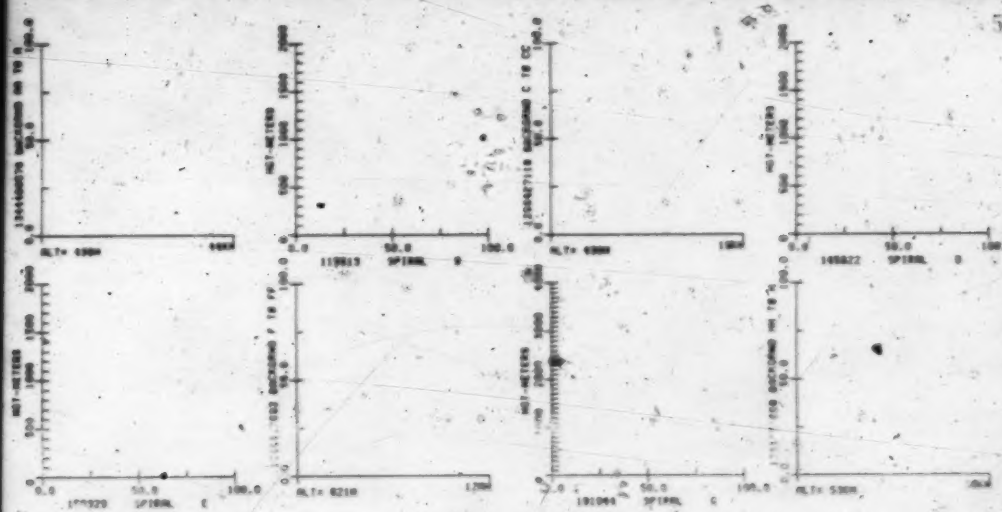
03 IN P.P.B.

MAP 3



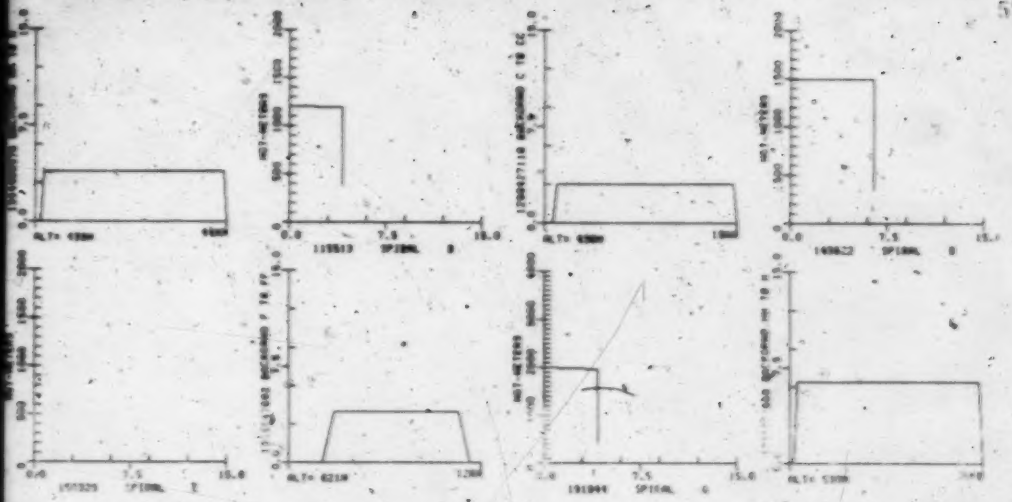
BSCAT IN $10^{-6}m^{-1}$

MAP 3



CNC IN $10^3 CM^{-3}$

MAP

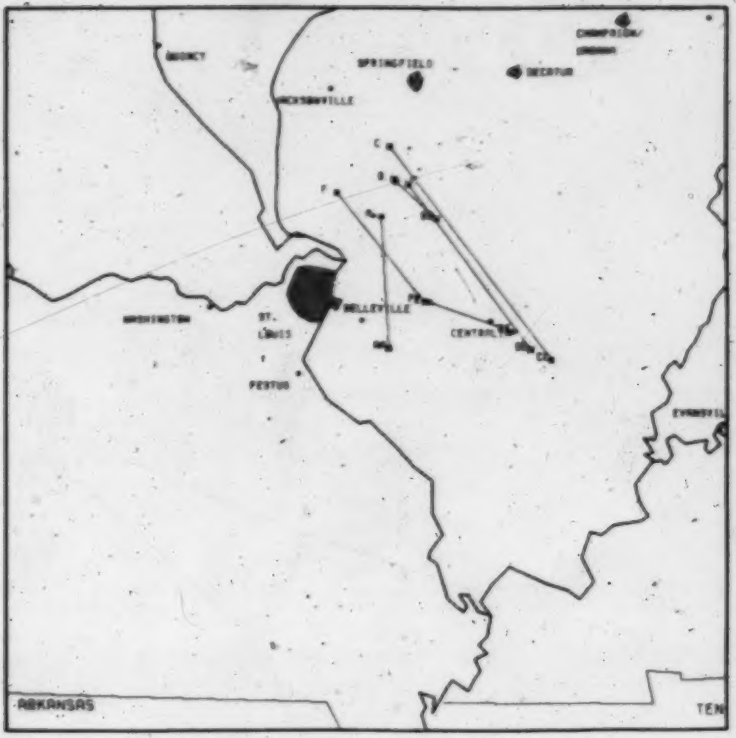


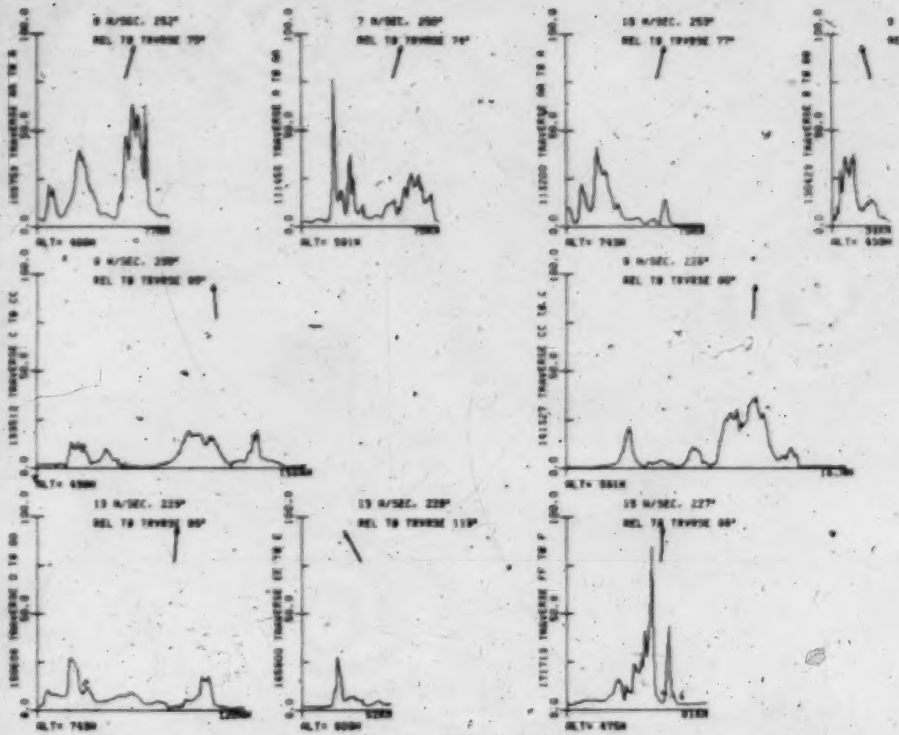
904 IN UC/M³

MAP 5

E 17

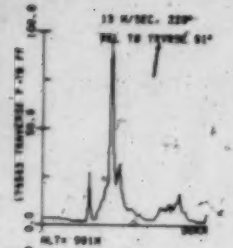
W76008.VOL 7-7-76 MAP 4

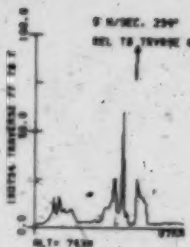


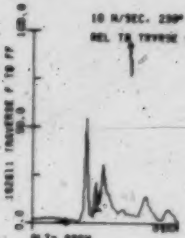


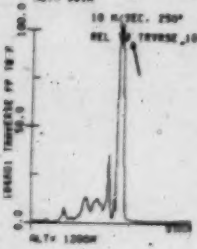
SO2 IN.P.P.B.

MAP 4



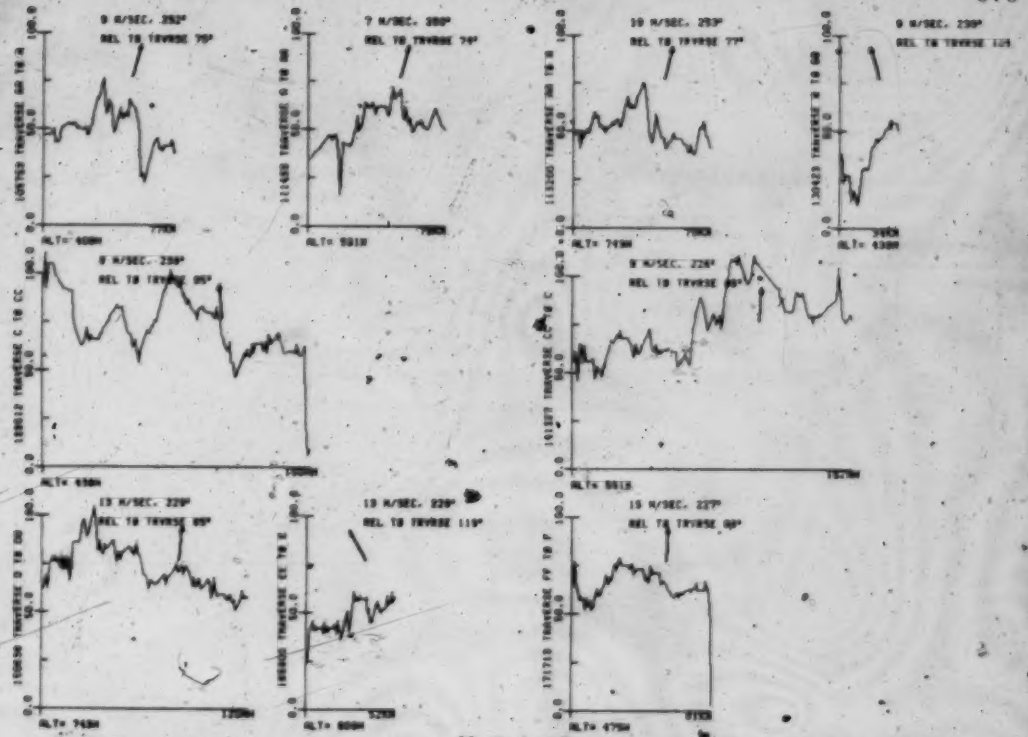






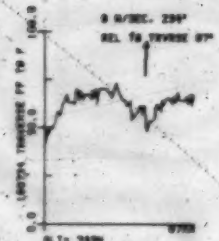
SO2 IN P.P.B.

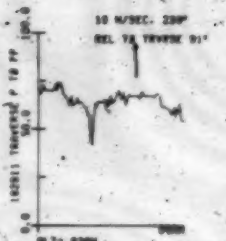
MAP 4

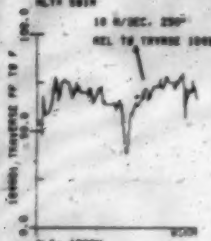


83 IN P.P.B.

MAP 4

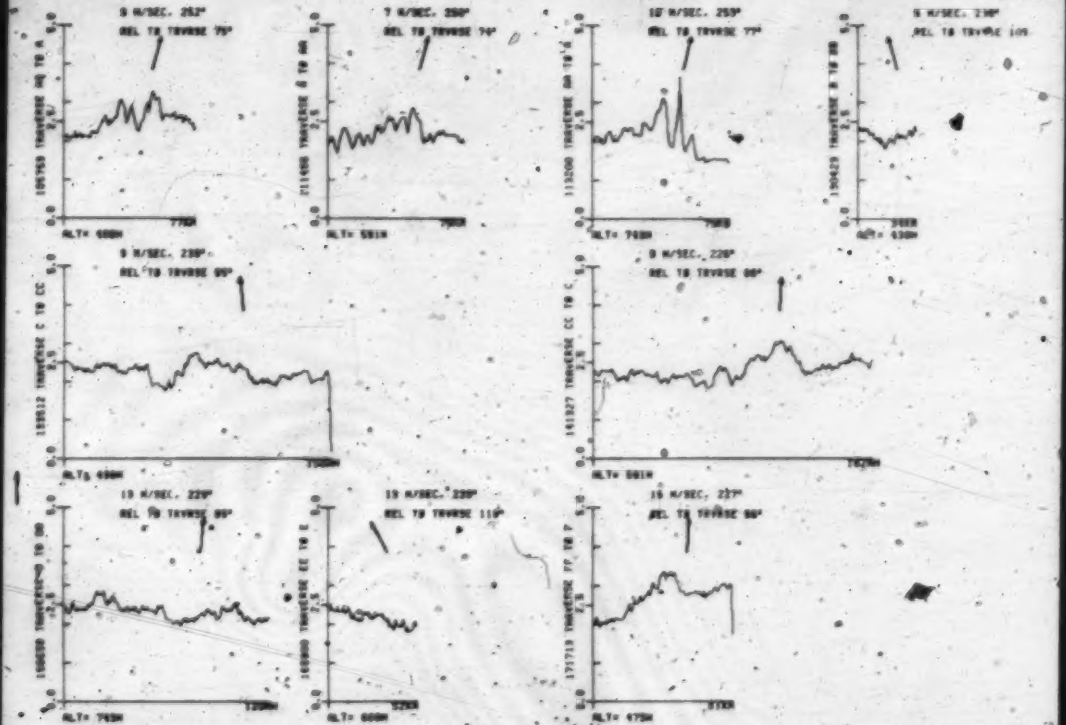




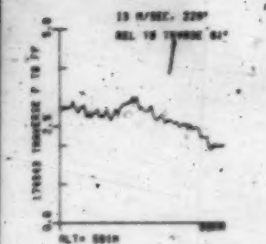


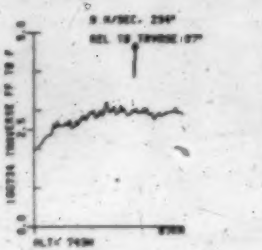
83 IN P.P.B.

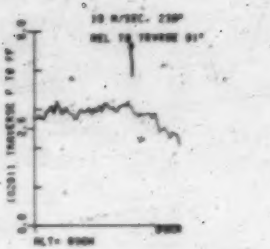
MAP 4

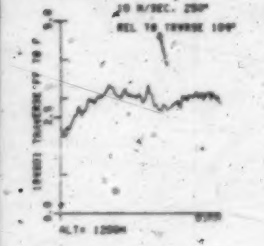

9 M/SEC. 252°
REL TO TRANSEC 70°
7 M/SEC. 250°
REL TO TRANSEC 74°
10 M/SEC. 253°
REL TO TRANSEC 77°
5 M/SEC. 230°
REL TO TRANSEC 109
9 M/SEC. 230°
REL TO TRANSEC 95°
9 M/SEC. 220°
REL TO TRANSEC 88°
13 M/SEC. 220°
REL TO TRANSEC 89°
13 M/SEC. 220°
REL TO TRANSEC 110°
15 M/SEC. 227°
REL TO TRANSEC 86°
BSCAT, IN 10**-4

MAP 4



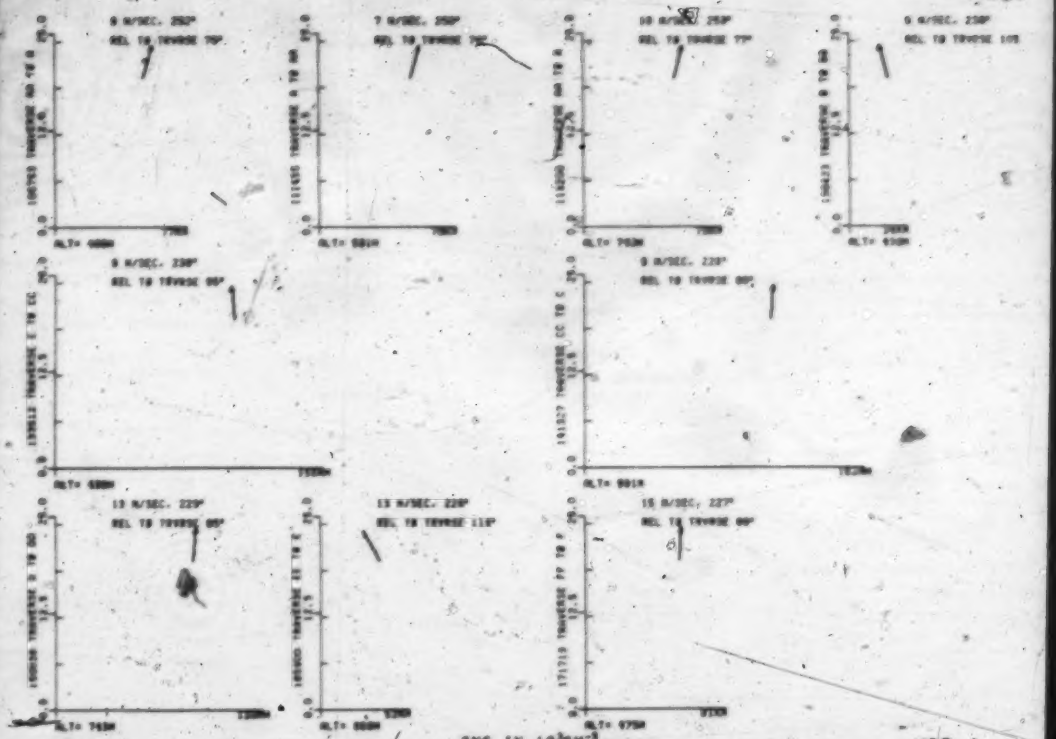






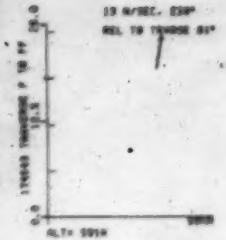
BSCAT IN $10^{-6}M^{-1}$

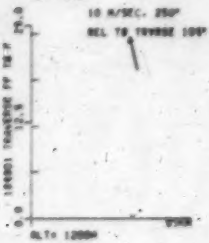
MAP 4



CNC IN $10^3 CM^{-3}$

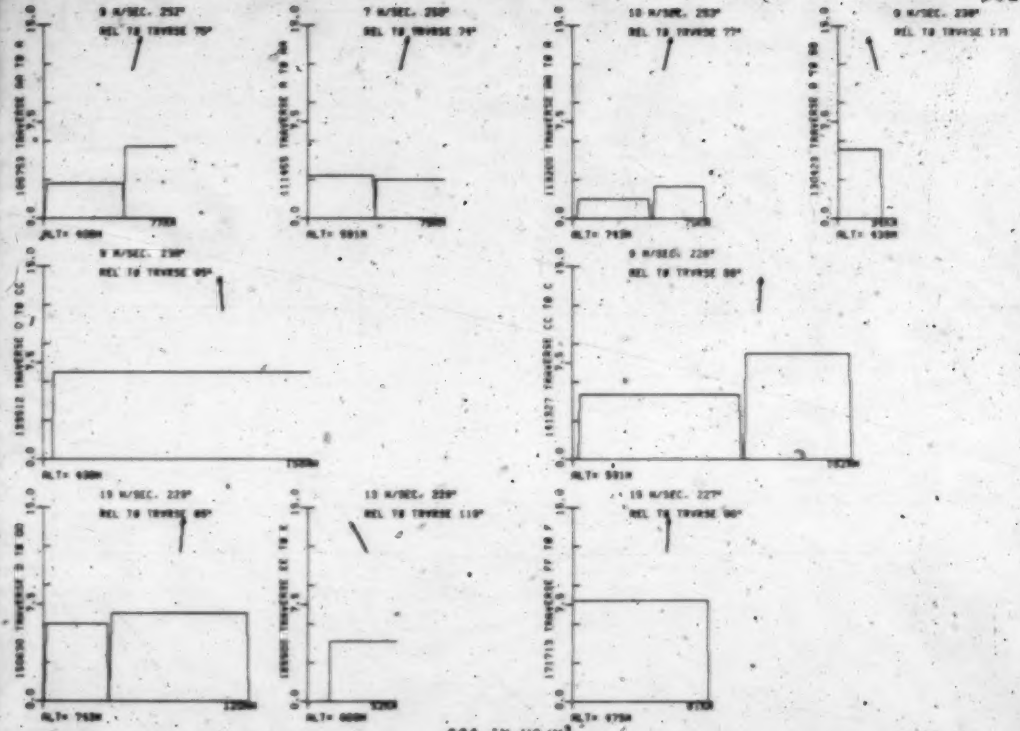
MAP 4





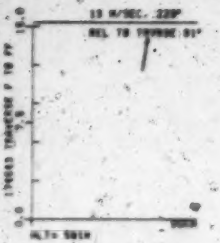
CNC IN $10^3 CM^{-3}$

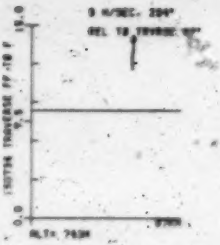
MAP 4

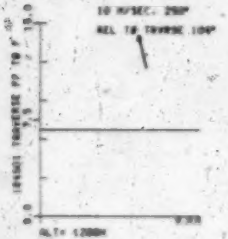


504 IN $\mu C/M^3$

MAP 4





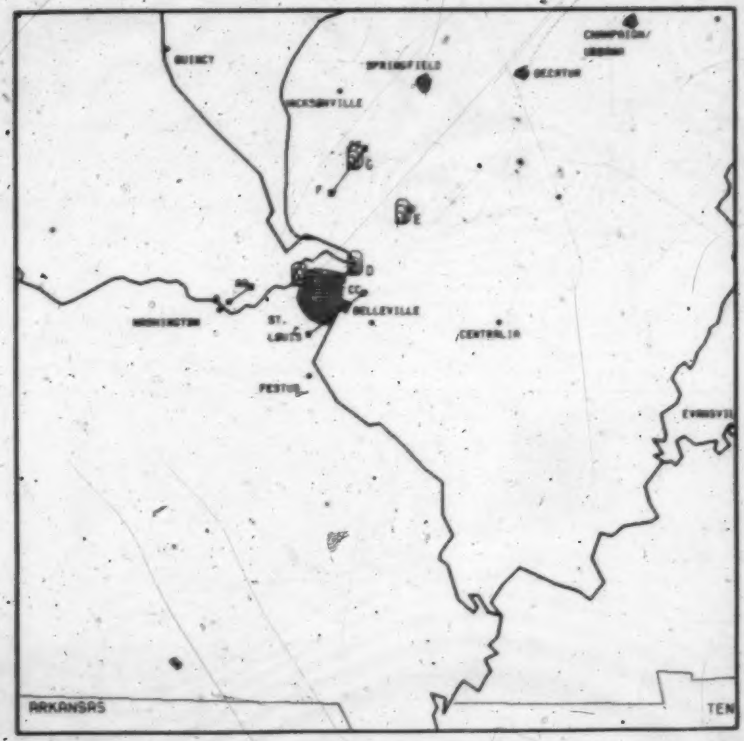


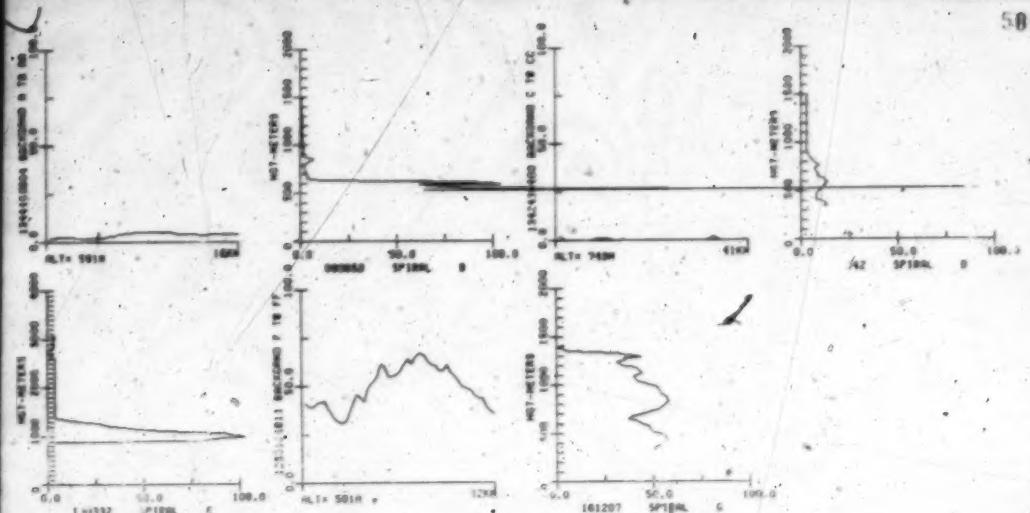
584 IN UC/M³

MAP 4

W76006.VBL 7-9-76

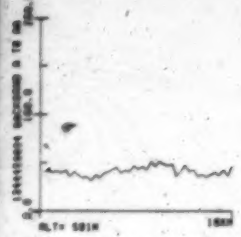
MAP 4

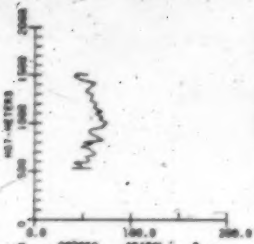


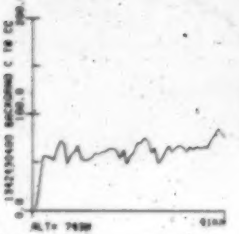


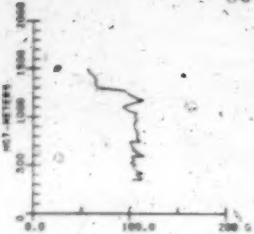
502 IN P.P.B.

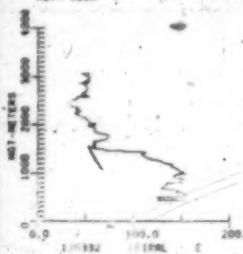
MAP 4

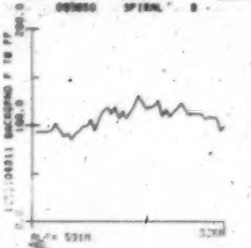


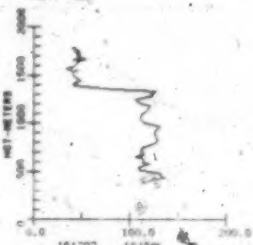






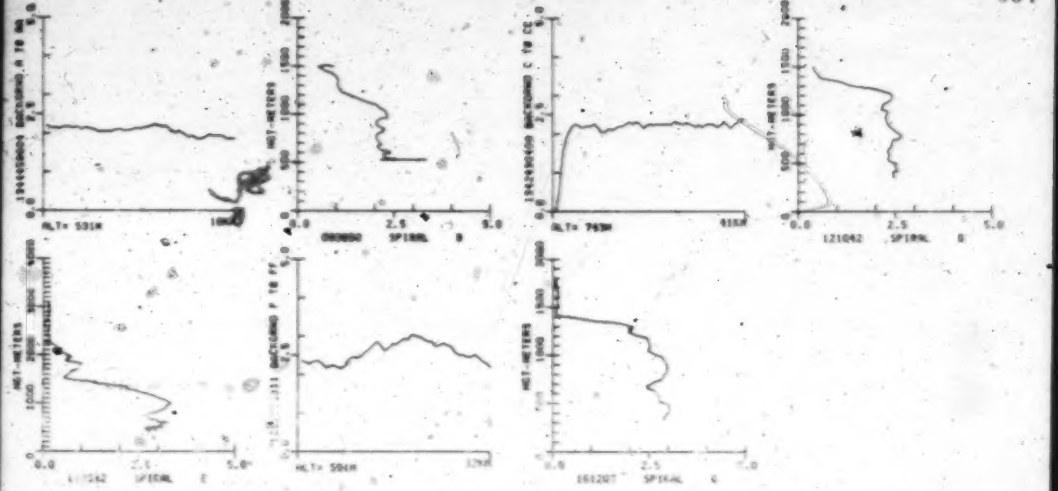






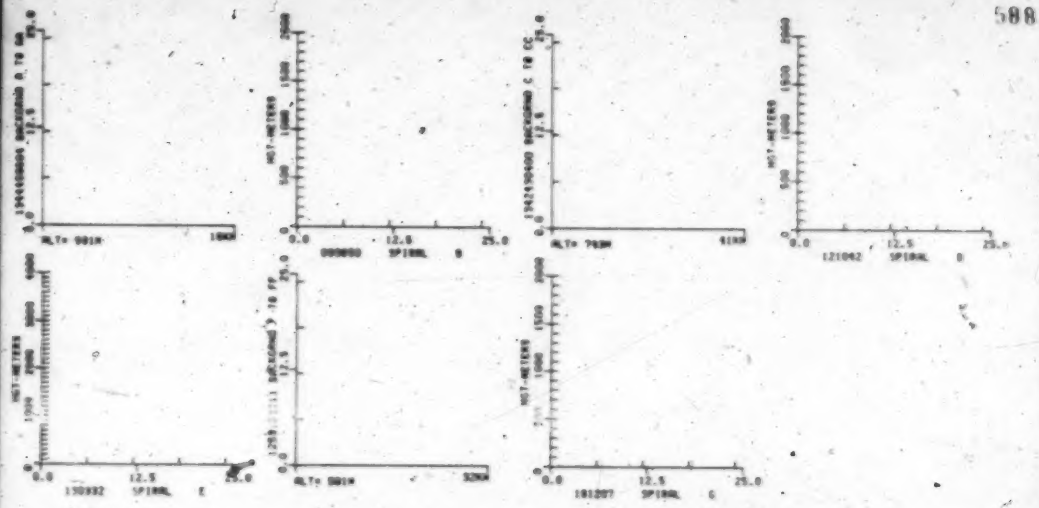
03 IN P.P.B.

MAP 1



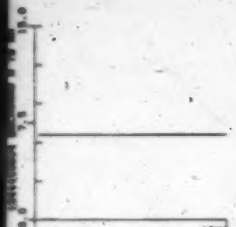
BSCAT IN 10^{-6} M^{-1}

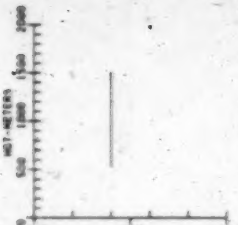
MAP 4

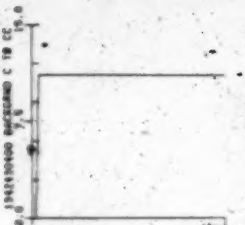


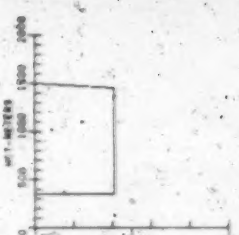
CNC IN $10^3 CM^{-3}$

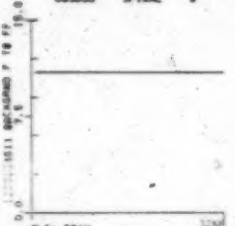
MAP 4

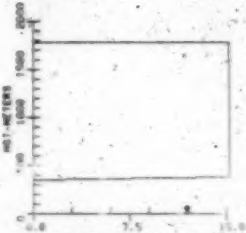










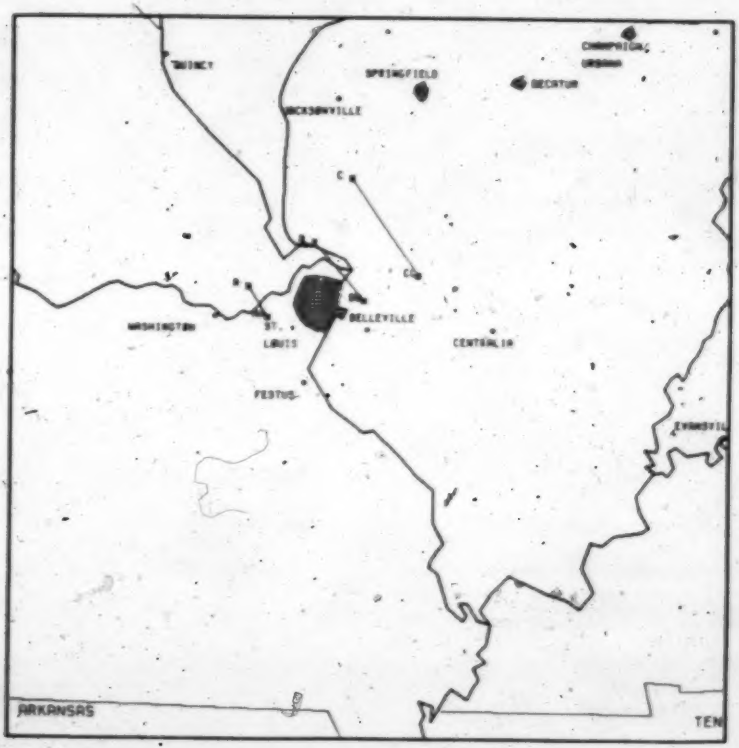


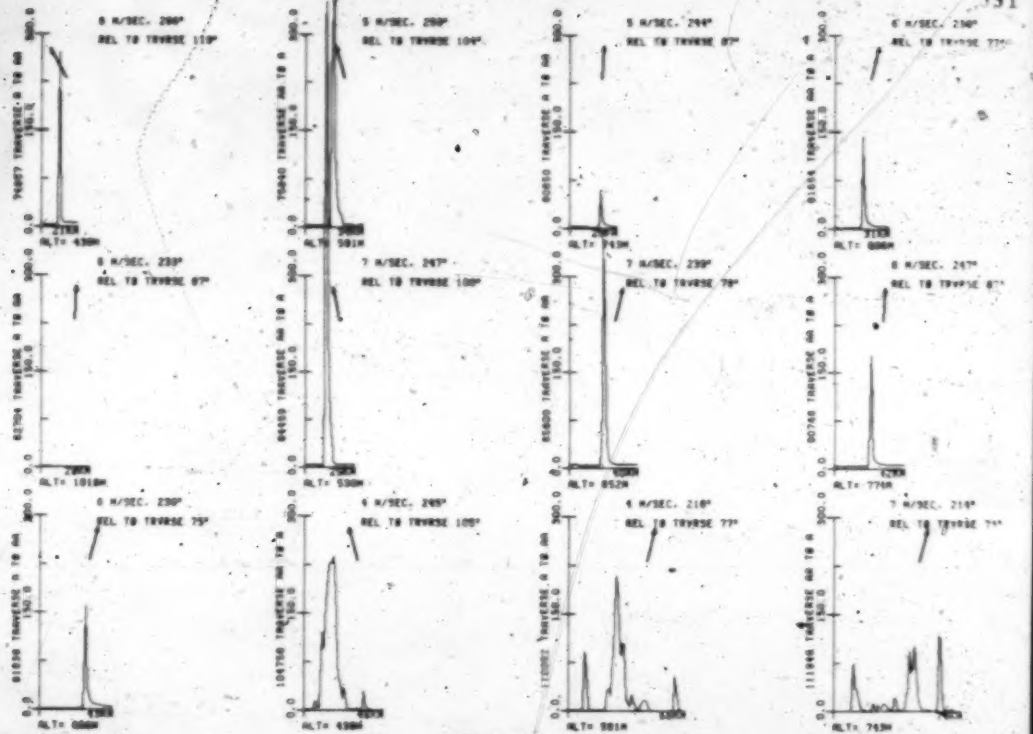
589 IN UC/M³

HHP

W76006.VOL 7-9-76

MAP 5



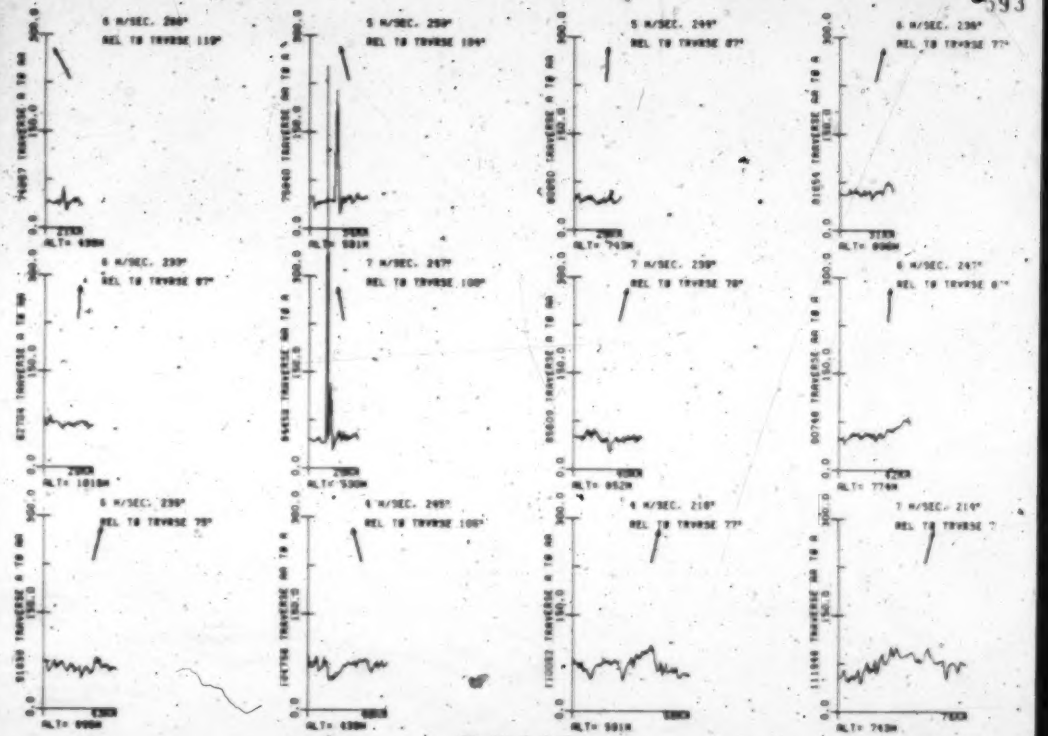


SO2 IN P.P.B.

MAP 5

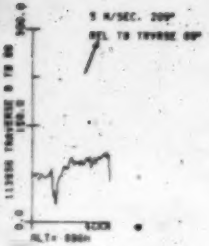
SO2 IN P.P.B.

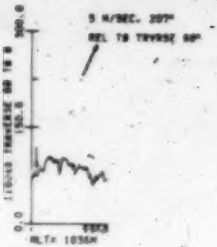
MAP 5

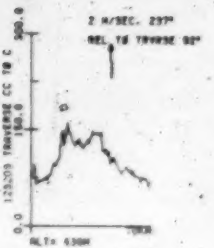


03 IN P.P.B.

MAP 5

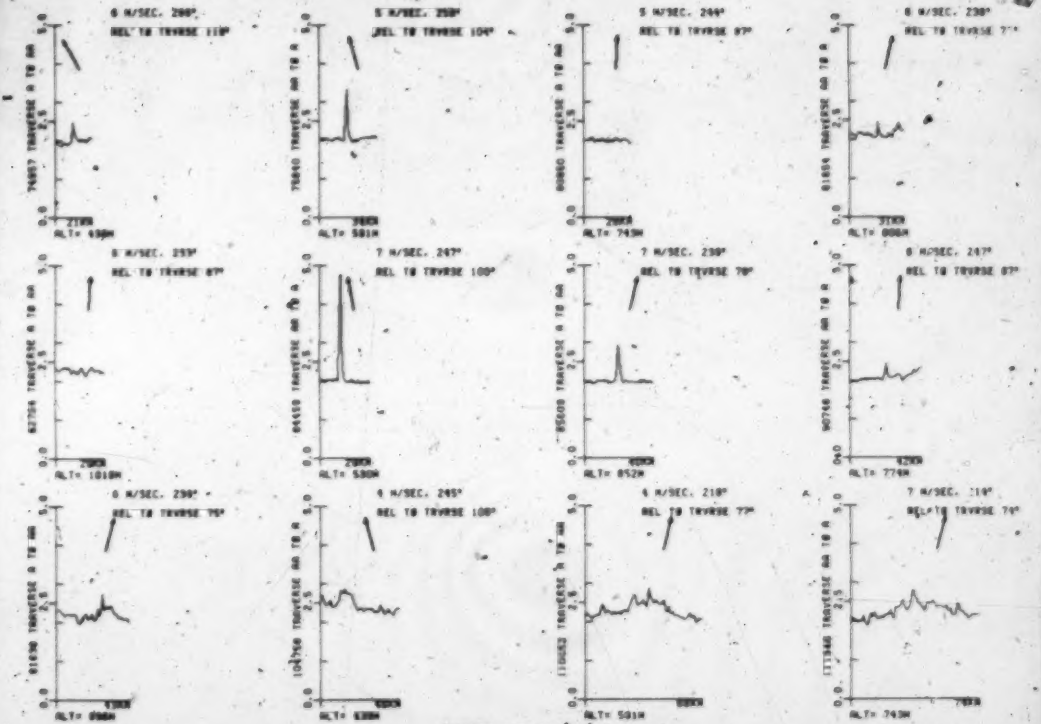






83 IN P.P.B.

MAP 5


6 M/SEC. 290°
REL TO TRVRSE 119°
5 M/SEC. 259°
REL TO TRVRSE 104°
5 M/SEC. 269°
REL TO TRVRSE 87°
6 M/SEC. 239°
REL TO TRVRSE 77°
6 M/SEC. 253°
REL TO TRVRSE 87°
7 M/SEC. 267°
REL TO TRVRSE 100°
7 M/SEC. 239°
REL TO TRVRSE 79°
6 M/SEC. 247°
REL TO TRVRSE 87°
6 M/SEC. 230°
REL TO TRVRSE 79°
6 M/SEC. 245°
REL TO TRVRSE 100°
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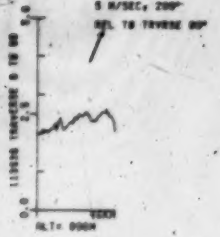
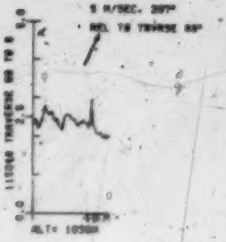
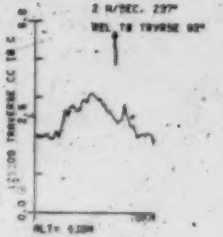
REL TO TRVRSE 72°
7 M/SEC. 219°
REL TO TRVRSE 79°
BSCAT IN 10⁻⁶M⁻¹ •
MAP 5

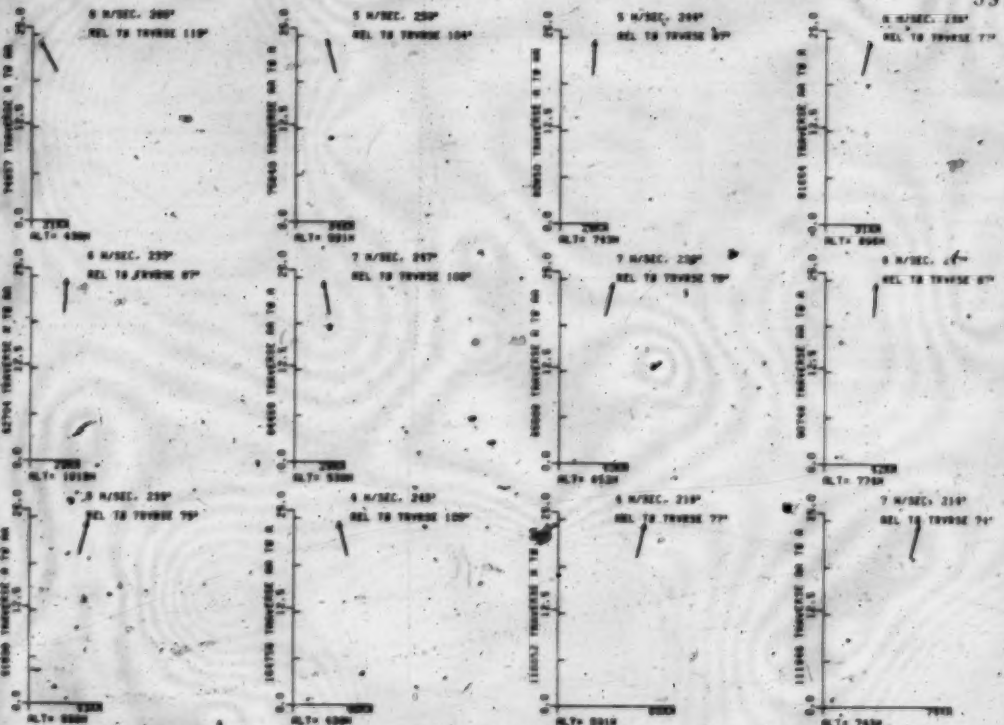






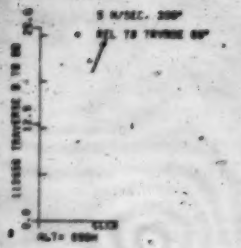
BSCAT IN $10^{-6}M^{-1}$

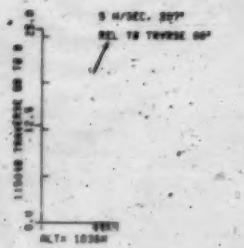
MAP 5

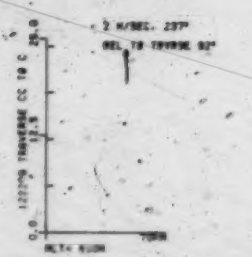


CNC IN $10^3 CM^{-3}$

MAP 5

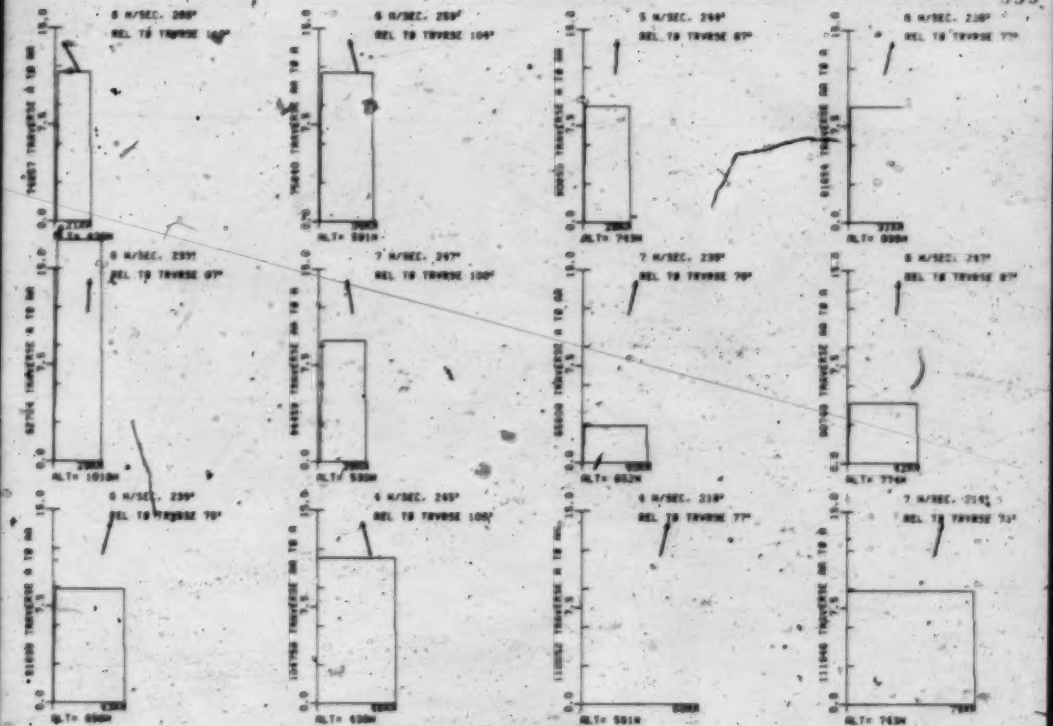






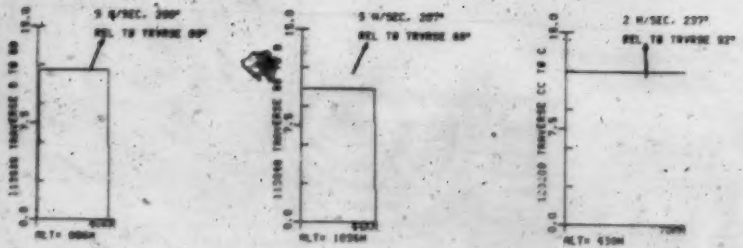
CNC IN $10^3 CM^{-3}$

MAP 5



384 IN UC/H³

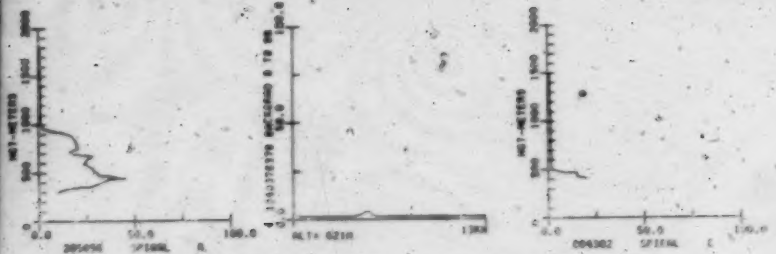
MAP 5



SO4 IN UG/M³

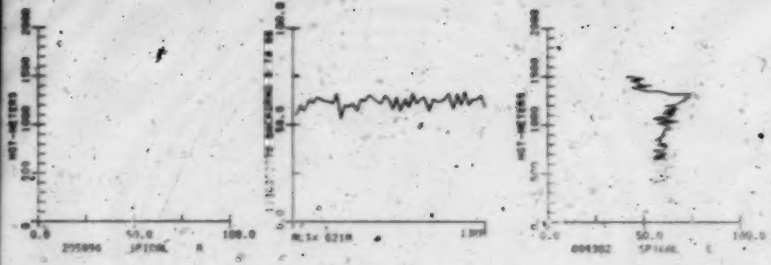
MAP 5

W76007.VOL 7-9+10-76 MAP 5



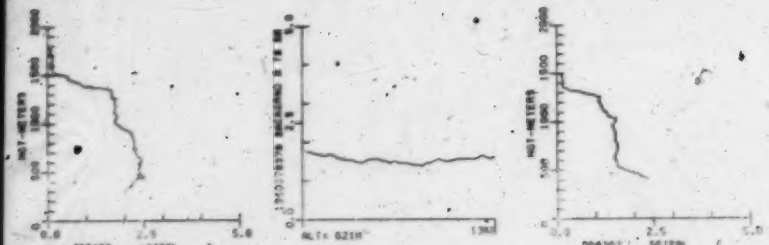
502 IN P.P.B.

MAP 5



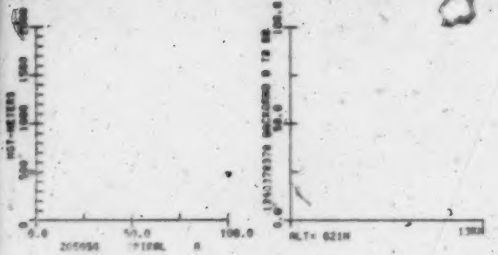
03 IN P.P.B.

MAP 5



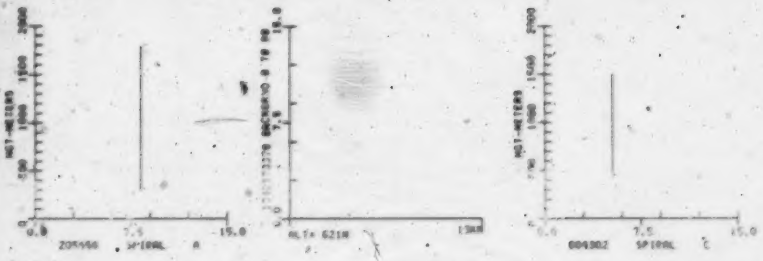
BSCAT IN $10^{-4}M^{-1}$

MAP 5



CNC IN $10^3 CM^{-3}$

MAP 5

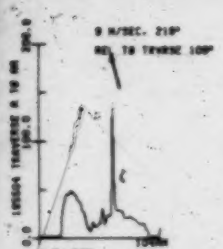


.504 IN UC/M³

MAP 5

W76007.VØL 7-9+10-76

MAP 6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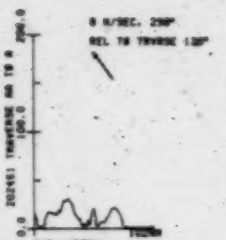
REL TO TRVRSE 109°
200.0
100.0
0.0
ALT= 987M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REL TO TRVRSE 188°
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0.0
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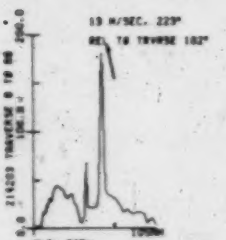
13 M/SEC. 223°
REL TO TRVRSE 182°
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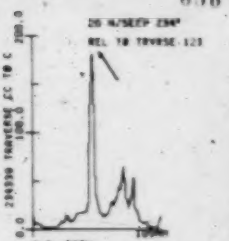
100.0
0.0
ALT= 597M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REL TO TRVRSE 123
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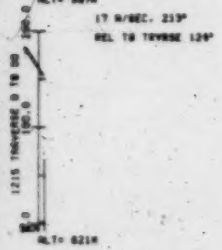
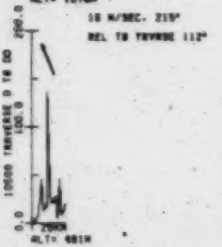
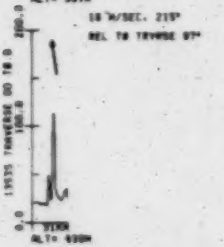
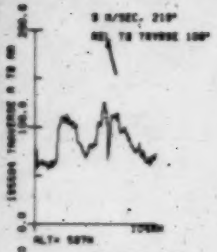
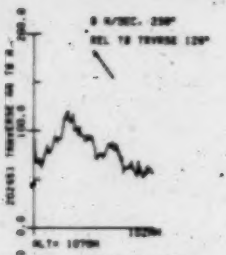
100.0
0.0
ALT= 597M


17 M/SEC. 213°
REL TO TRVRSE 129°
200.0
100.0
0.0
ALT= 621M


18 M/SEC. 215°
REL TO TRVRSE 112°
200.0
100.0
0.0
ALT= 681M


18 M/SEC. 215°
REL TO TRVRSE 97°
200.0
100.0
0.0
ALT= 630M


9 M/SEC. 219°
REL TO TRVRSE 108°
ALT= 587M
1050M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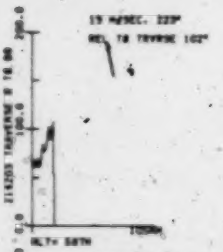
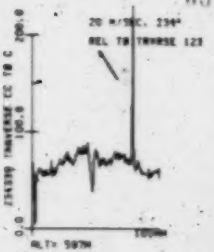
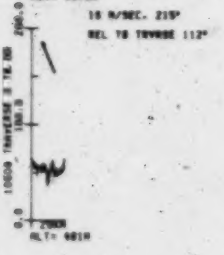
REL TO TRVRSE 129°
ALT= 1079M
1552M

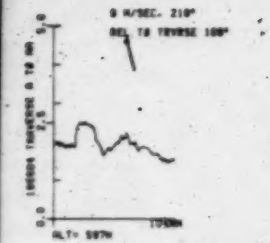

19 M/SEC. 222°
REL TO TRVRSE 102°
ALT= 587M
1050M

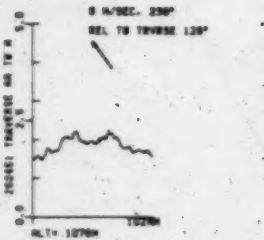

20 M/SEC. 234°
REL TO TRVRSE 123
ALT= 587M
1050M

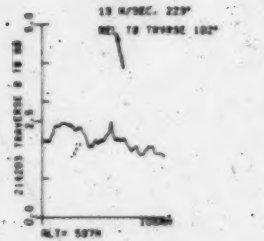
17 M/SEC. 219°
REL TO TRVRSE 124°
ALT= 621M

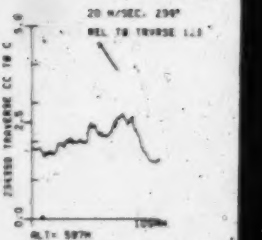

15 M/SEC. 219°
REL TO TRVRSE 112°
ALT= 681M

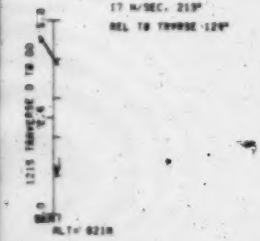
18 M/SEC. 219°
REL TO TRVRSE 97°
ALT= 430M

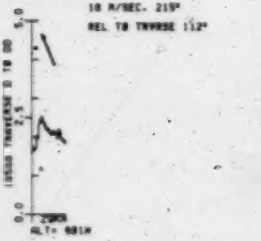






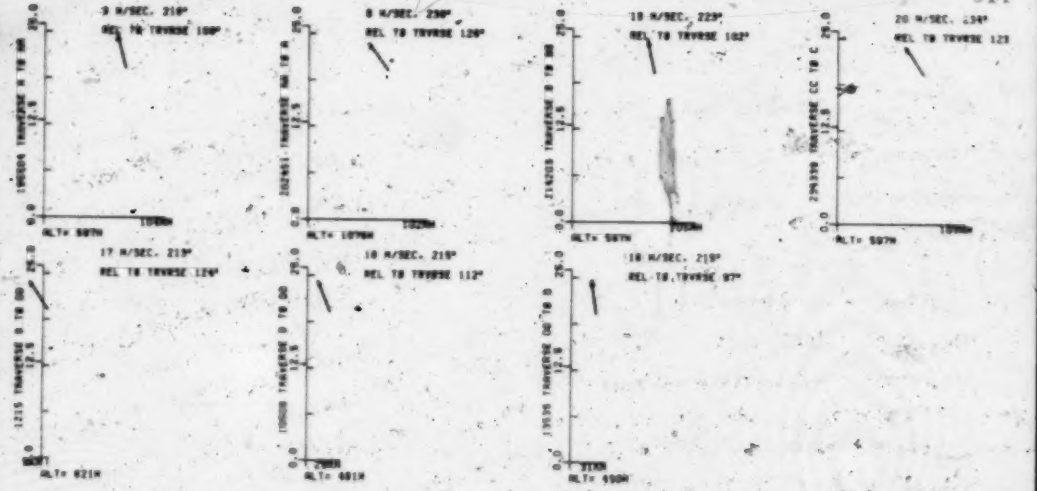






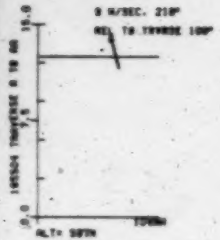
BSCAT IN $10^{-4}M^{-1}$

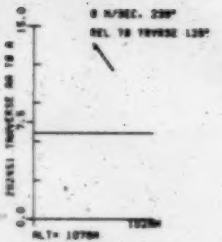
MAP 6

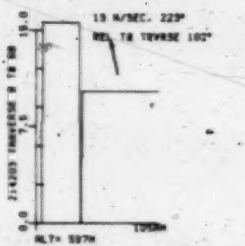


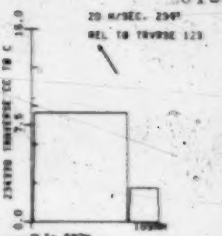
CNC IN $10^3 CM^{-3}$

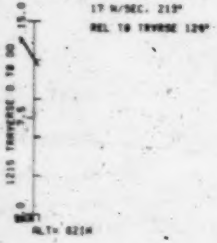
MAP 5

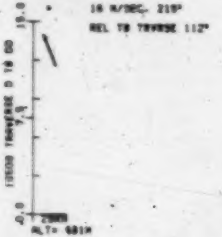


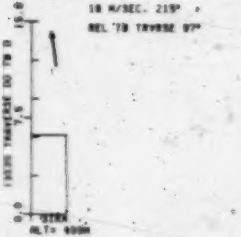








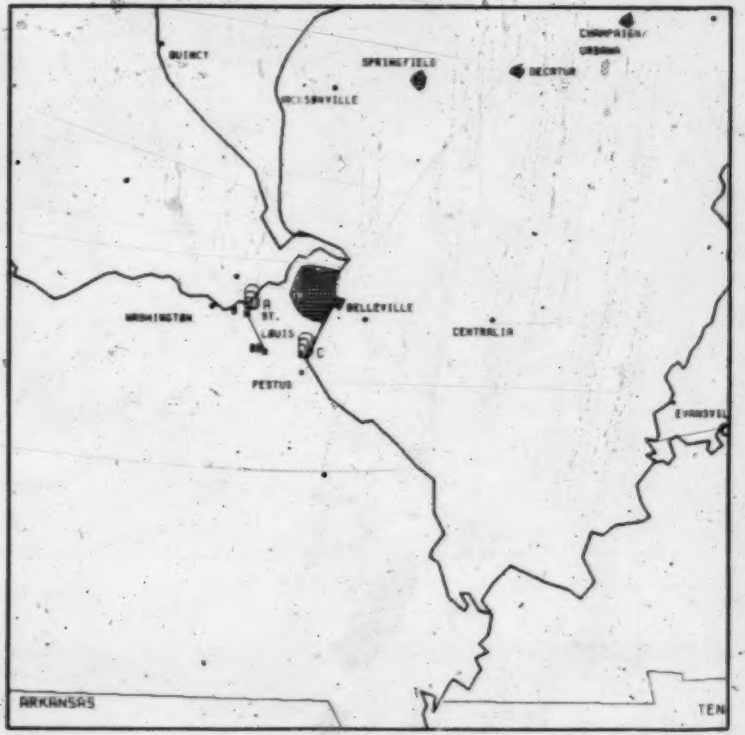


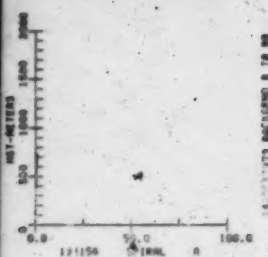


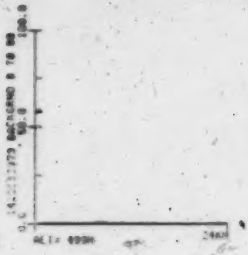
S04 IN UC/M³

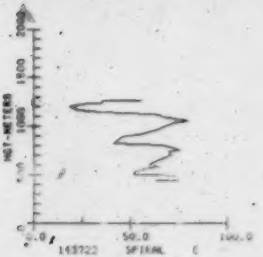
MAP 5

W76009.VOL 7-12-76 MAP 6



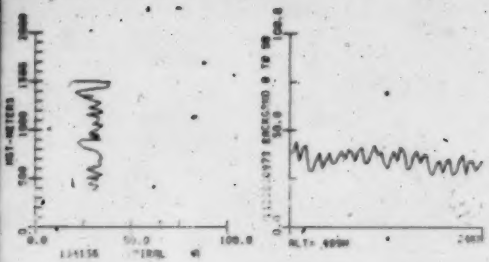


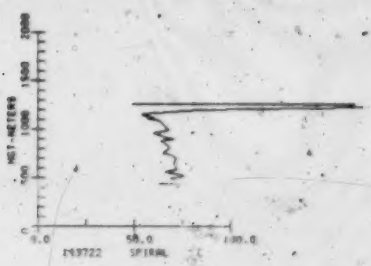




SO2 IN P.P.B.

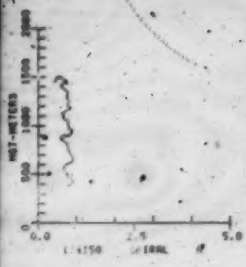
MAP 5

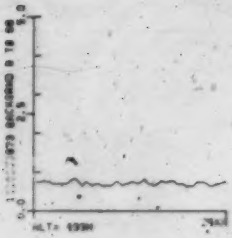

METERS
500
1000
1500
2000
0.0
50.0
100.0

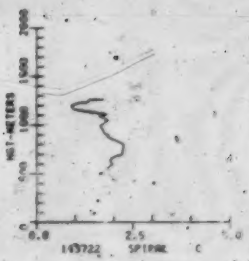

METERS
500
1000
1500
2000
0.0
50.0
100.0

93 IN P.P.B.

MAP

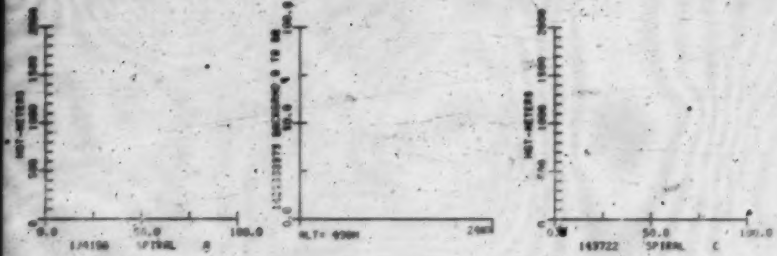






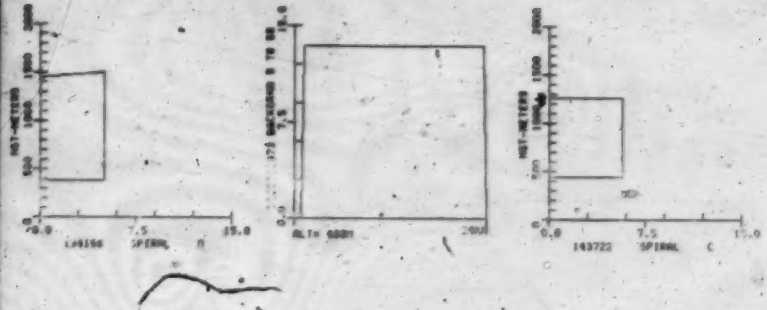
BSCAT IN 10^{-4} M^{-1}

MAP 5



ENC IN $10^{5}CM^{-3}$

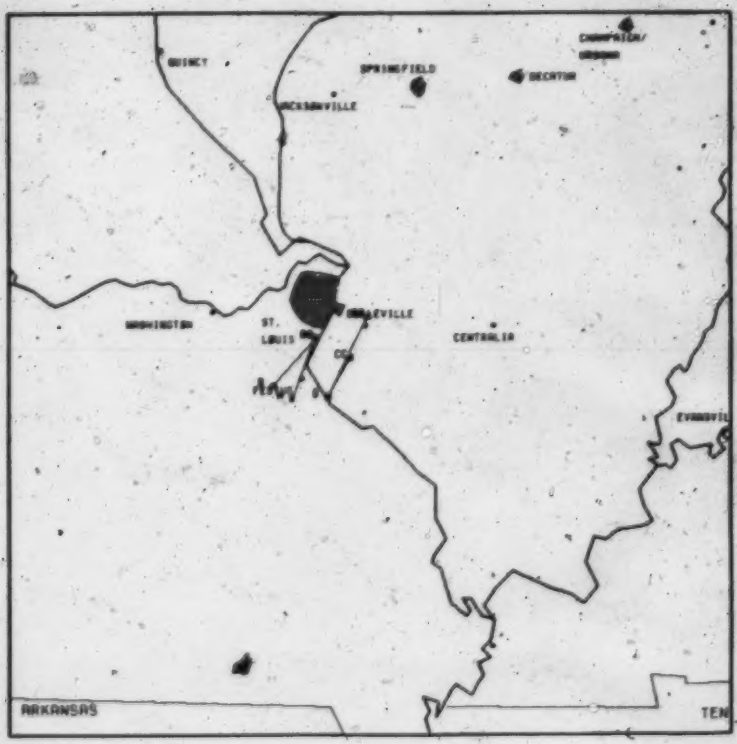
MAE C



SO_4 IN UC/M^3.

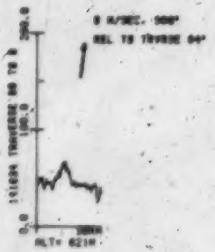
MHP

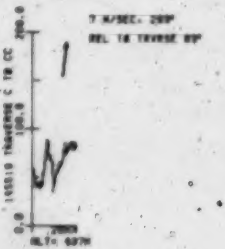
W76009.VØL 7-12-76 MAP 7

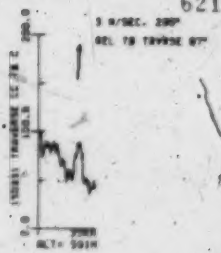


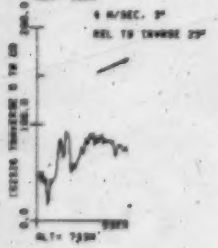
SB2 IN P.P.B.

MAP 7



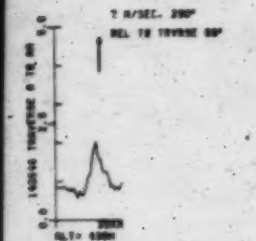


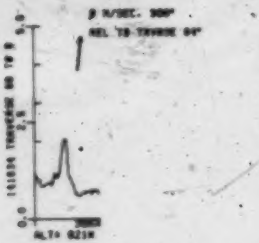


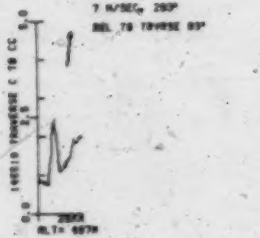


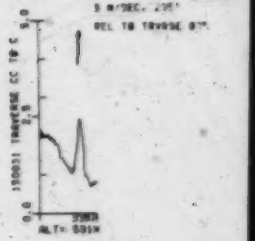
93 IN P.P.B.

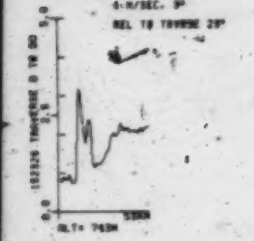
MAP 7











BSCAT IN $10^{-5}M^{-1}$

MAP 7